Pythagorean theorem – examples

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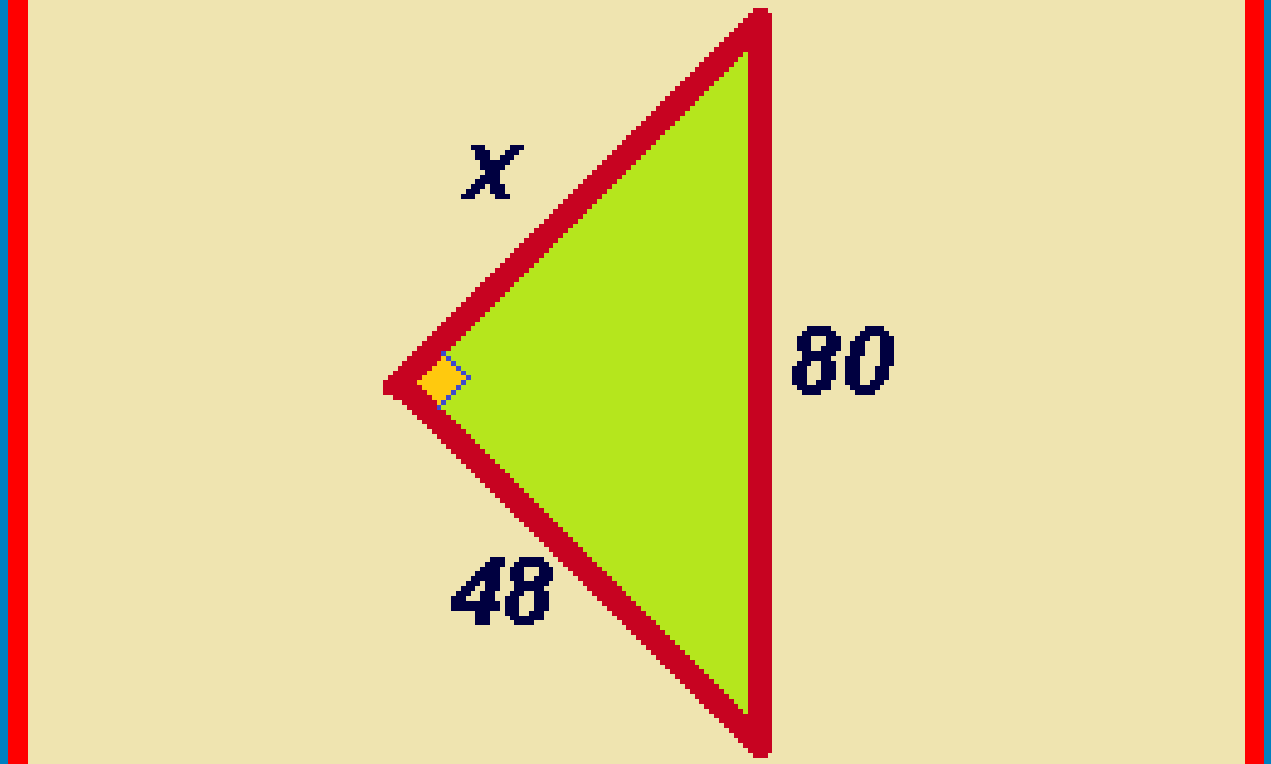

$$x^2 + 48^2 = 80^2$$
$$x^2 + 2304 = 6400$$
$$x^2 = 6400 - 2304$$
$$x^2 = 4096$$
$$x = \sqrt{4096}$$
$$x = 64$$

Pythagorean theorem – examples

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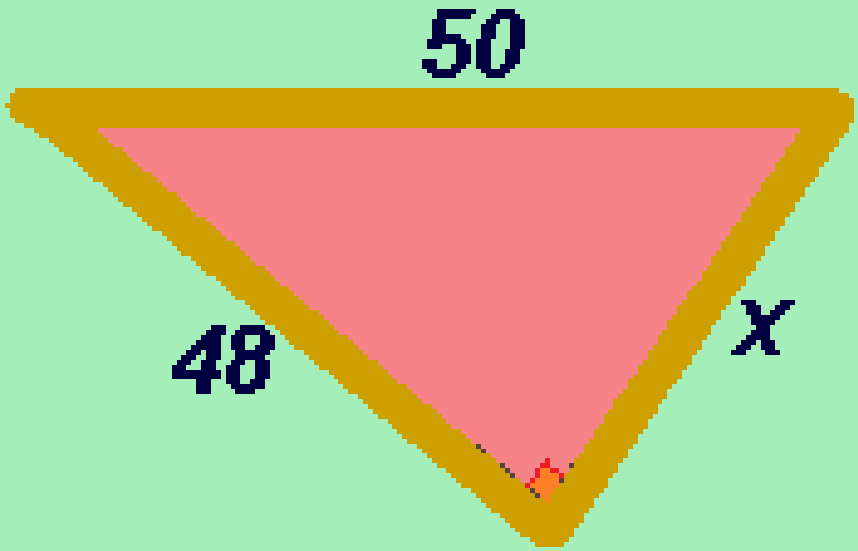

$$x^2 + 48^2 = 50^2$$
$$x^2 + 2304 = 2500$$
$$x^2 = 2500 - 2304$$
$$x^2 = 196$$
$$x = \sqrt{196}$$
$$x = 14$$

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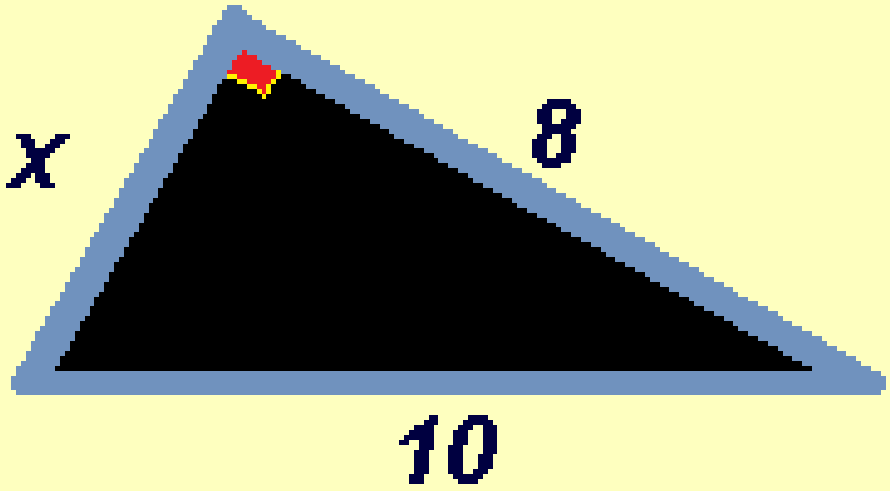

$$x^2 + 8^2 = 10^2$$
$$x^2 + 64 = 100$$
$$x^2 = 100 - 64$$
$$x^2 = 36$$
$$x = \sqrt{36}$$
$$x = 6$$

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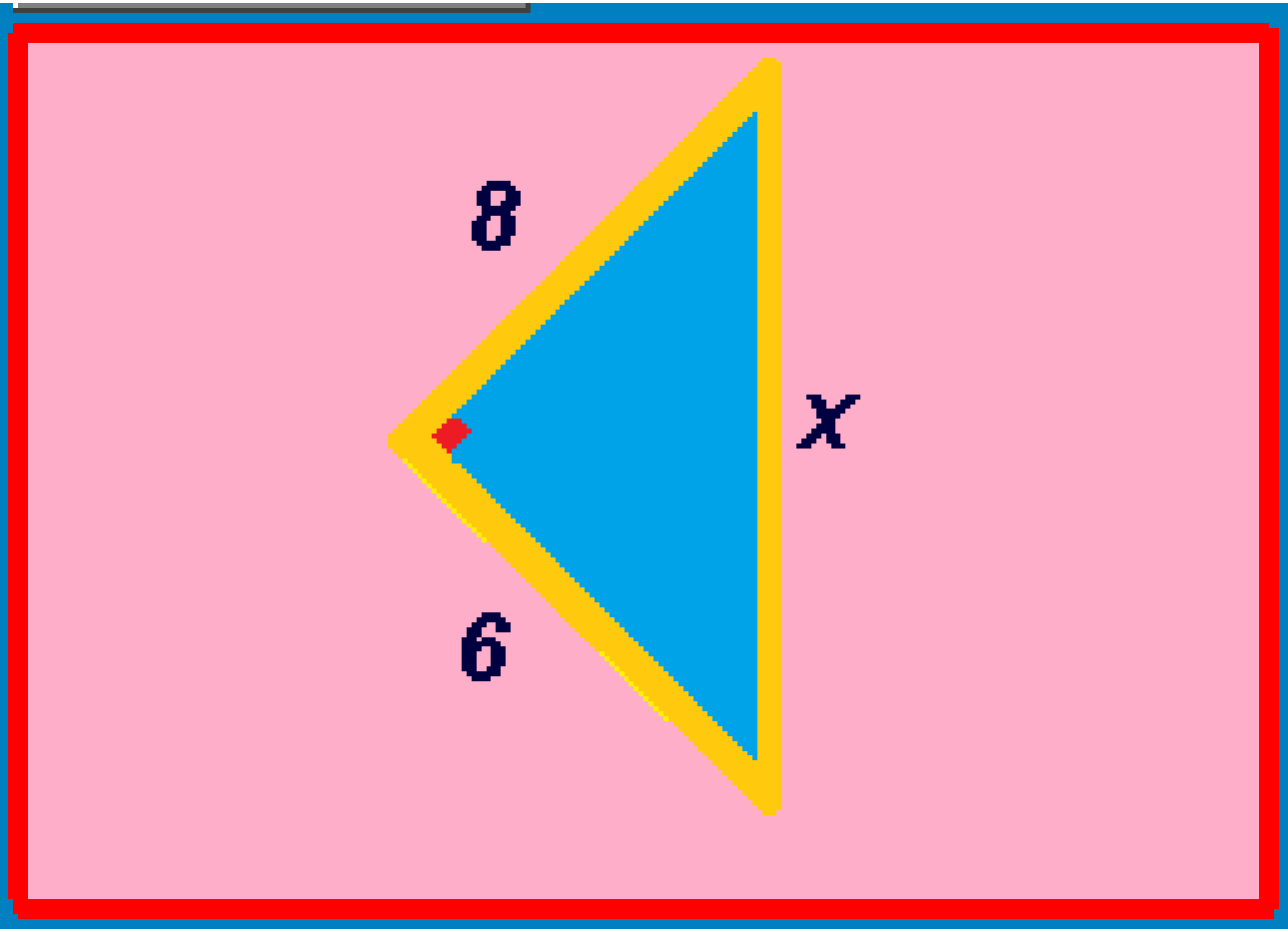

$$6^2 + 8^2 = x^2$$
$$36 + 64 = x^2$$
$$x^2 = 36 + 64$$
$$x^2 = 100$$
$$x = \sqrt{100}$$
$$x = 10$$

Pythagorean theorem – examples

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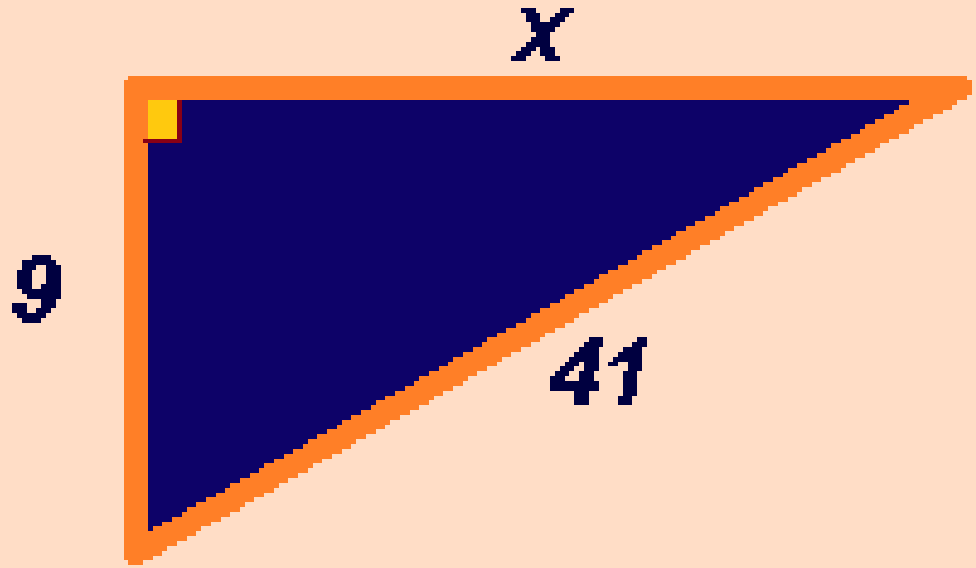

$$x^2 + 9^2 = 41^2$$
$$x^2 + 81 = 1681$$
$$x^2 = 1681 - 81$$
$$x^2 = 1600$$
$$x = \sqrt{1600}$$
$$x = 40$$

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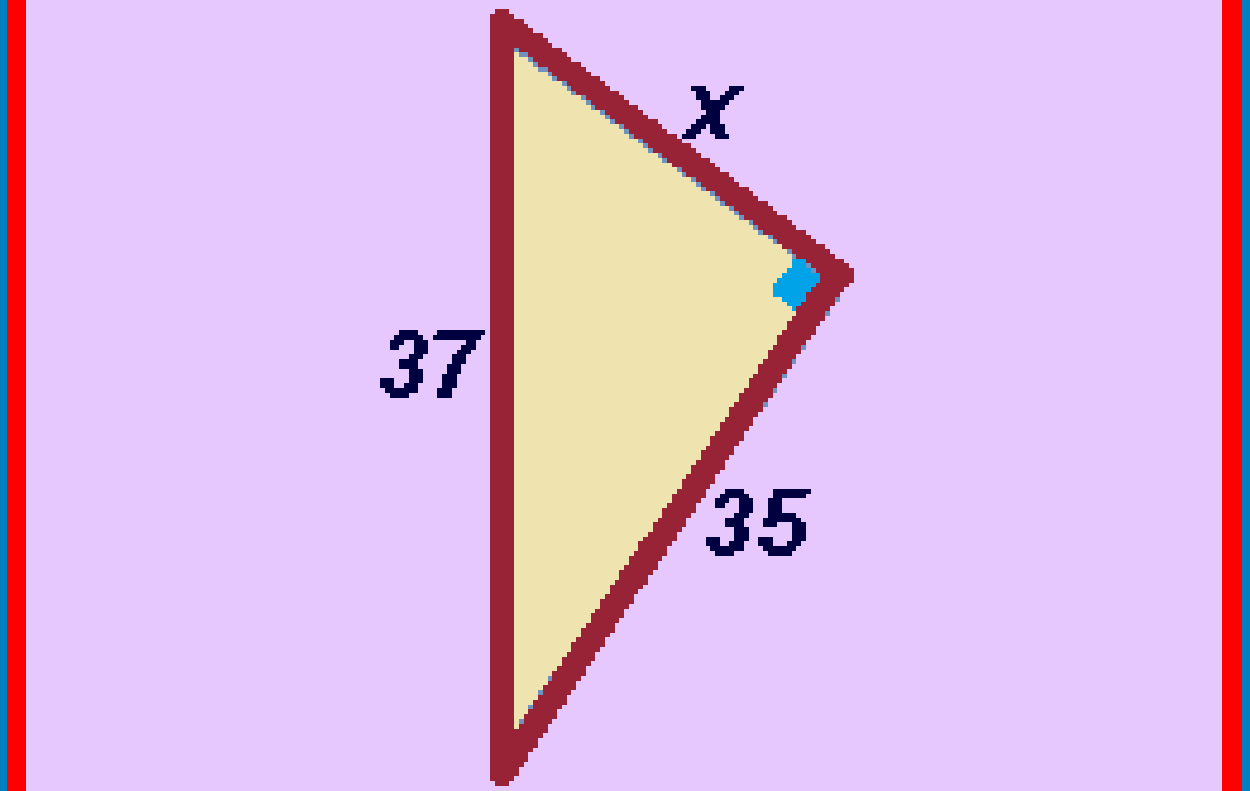

$$x^2 + 35^2 = 37^2$$
$$x^2 + 1225 = 1369$$
$$x^2 = 1369 - 1225$$
$$x^2 = 144$$
$$x = \sqrt{144}$$
$$x = 12$$

Pythagorean theorem – examples

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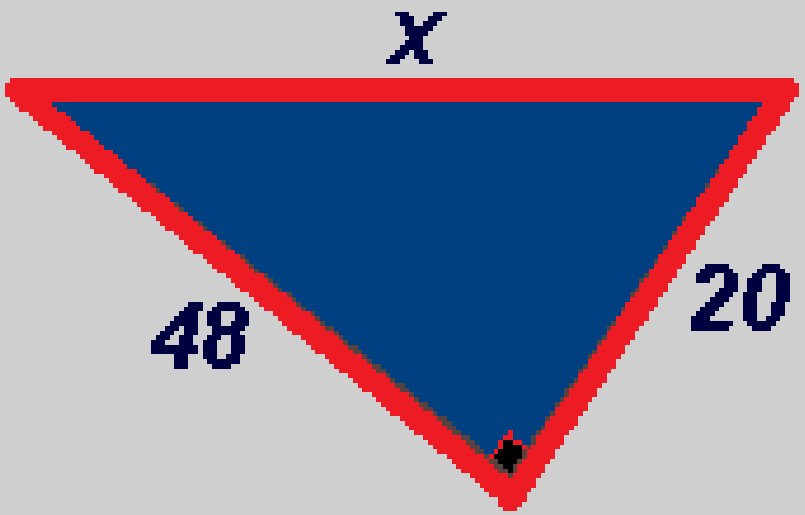

$$20^2 + 48^2 = x^2$$
$$400 + 2304 = x^2$$
$$x^2 = 400 + 2304$$
$$x^2 = 2704$$
$$x = \sqrt{2704}$$
$$x = 52$$

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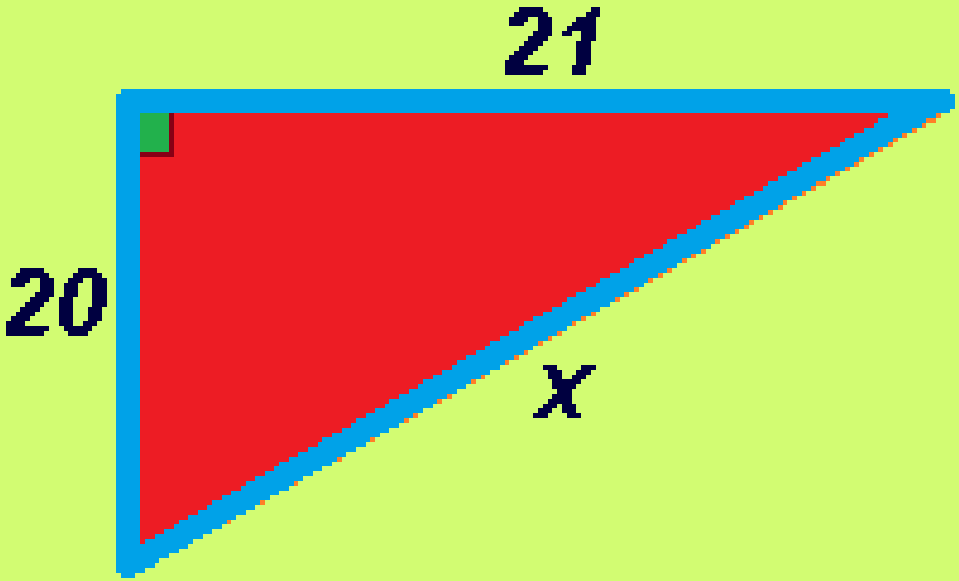

$$20^2 + 21^2 = x^2$$
$$400 + 441 = x^2$$
$$x^2 = 400 + 441$$
$$x^2 = 841$$
$$x = \sqrt{841}$$
$$x = 29$$

Pythagorean theorem – examples

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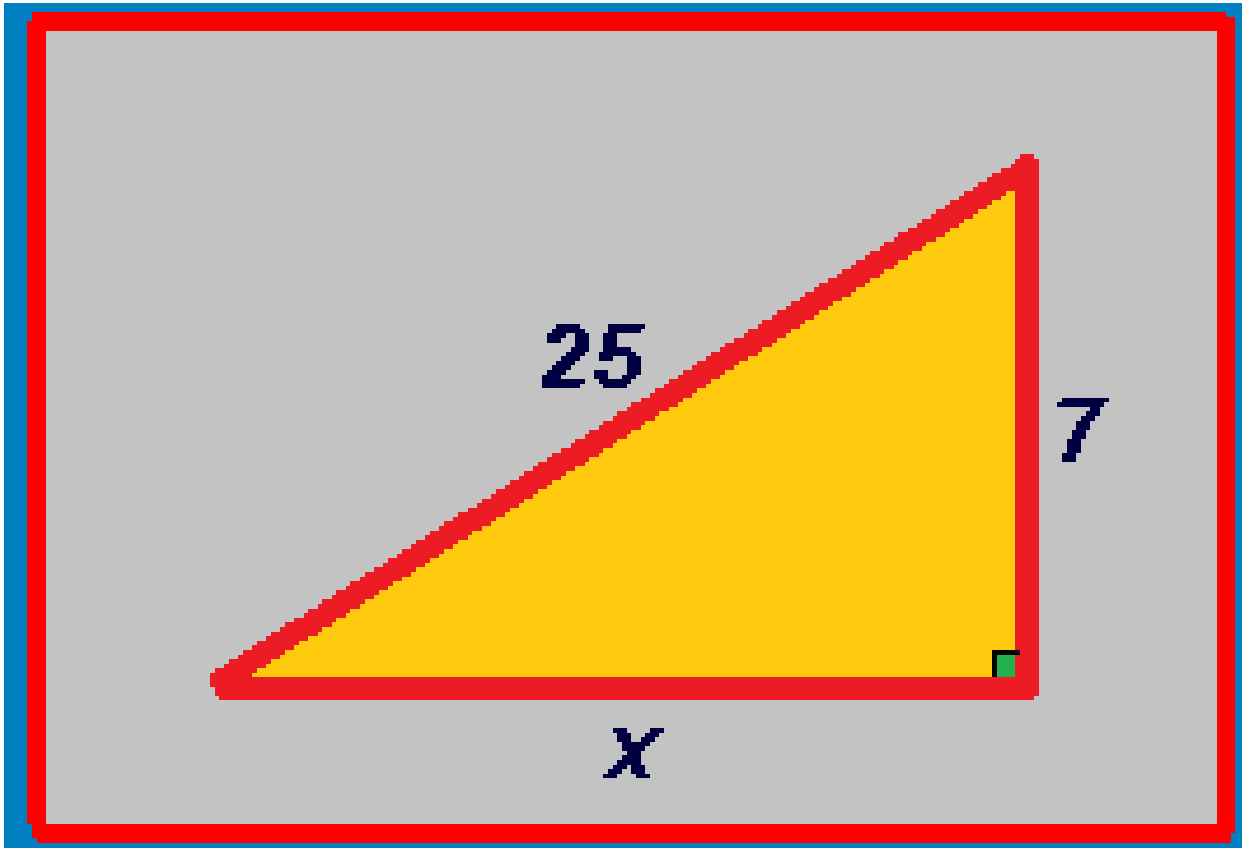

$$x^2 + 7^2 = 25^2$$
$$x^2 + 49 = 625$$
$$x^2 = 625 - 49$$
$$x^2 = 576$$
$$x = \sqrt{576}$$
$$x = 24$$

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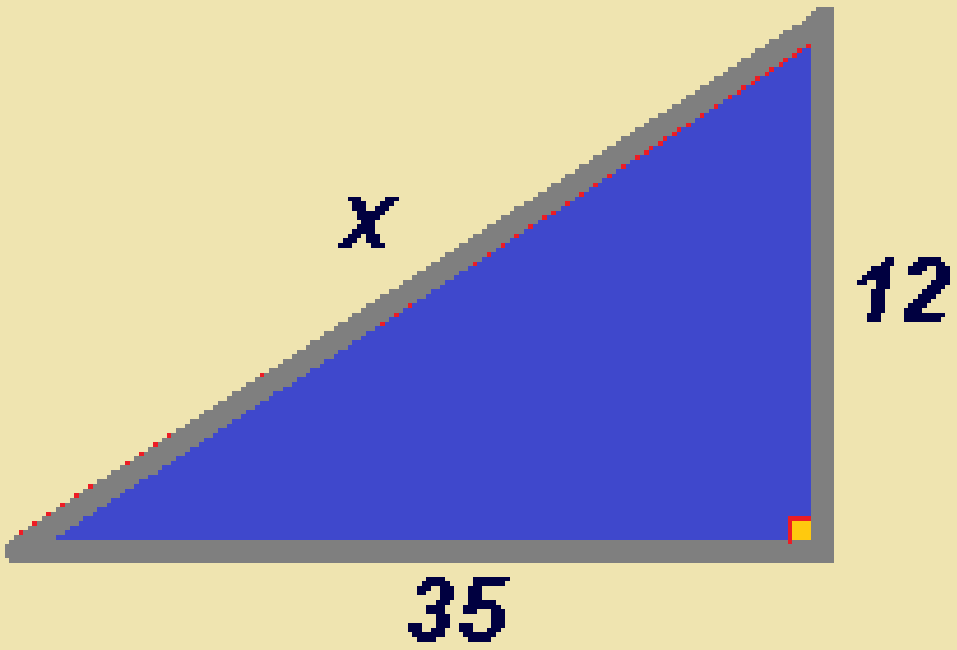

$$12^2 + 35^2 = x^2$$
$$144 + 1225 = x^2$$
$$x^2 = 144 + 1225$$
$$x^2 = 1369$$
$$x = \sqrt{1369}$$
$$x = 37$$

Pythagorean theorem – examples

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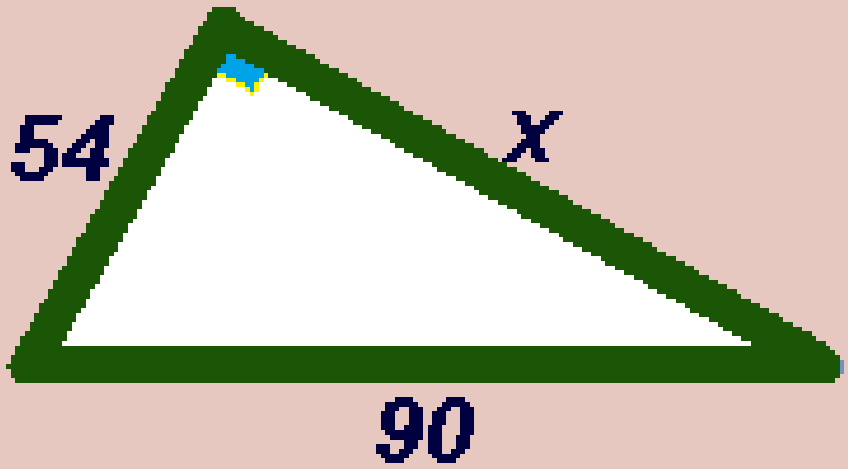

$$x^2 + 54^2 = 90^2$$
$$x^2 + 2916 = 8100$$
$$x^2 = 8100 - 2916$$
$$x^2 = 5184$$
$$x = \sqrt{5184}$$
$$x = 72$$

Pythagorean theorem – examples

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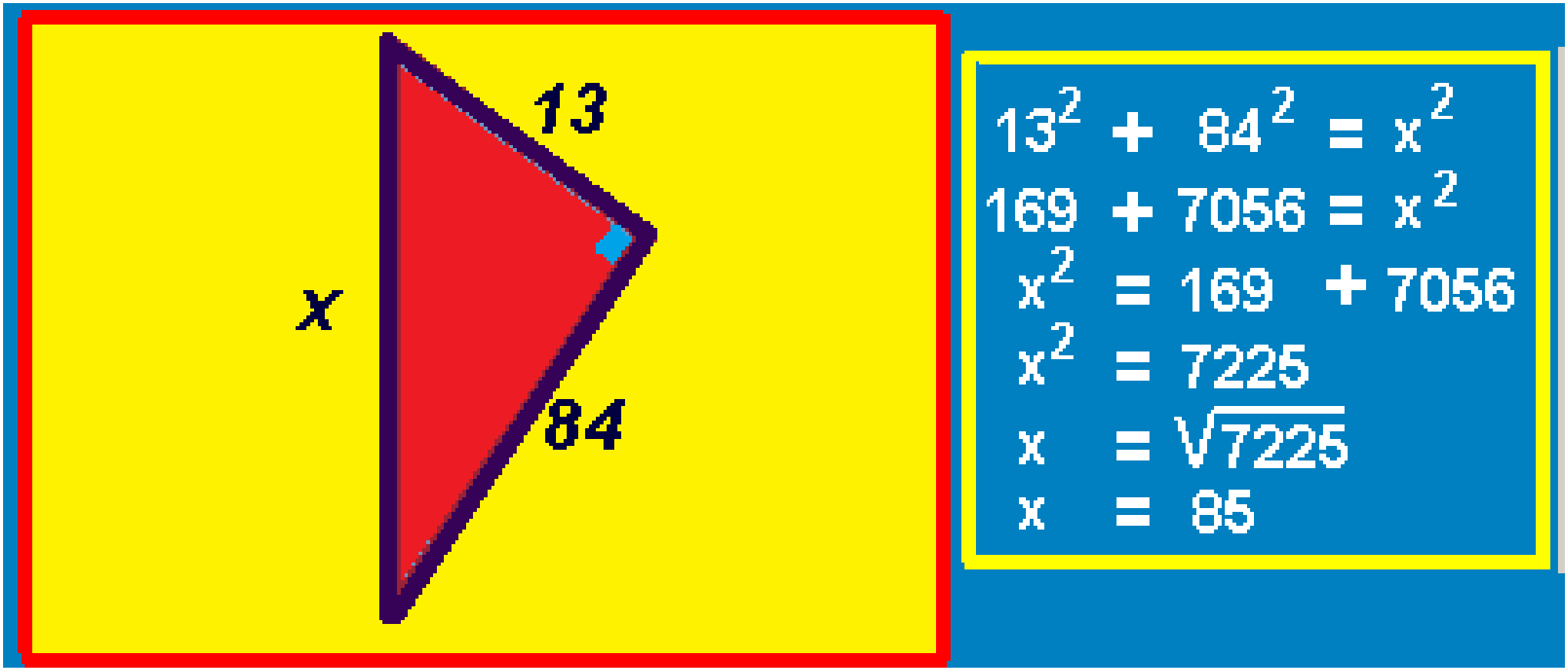

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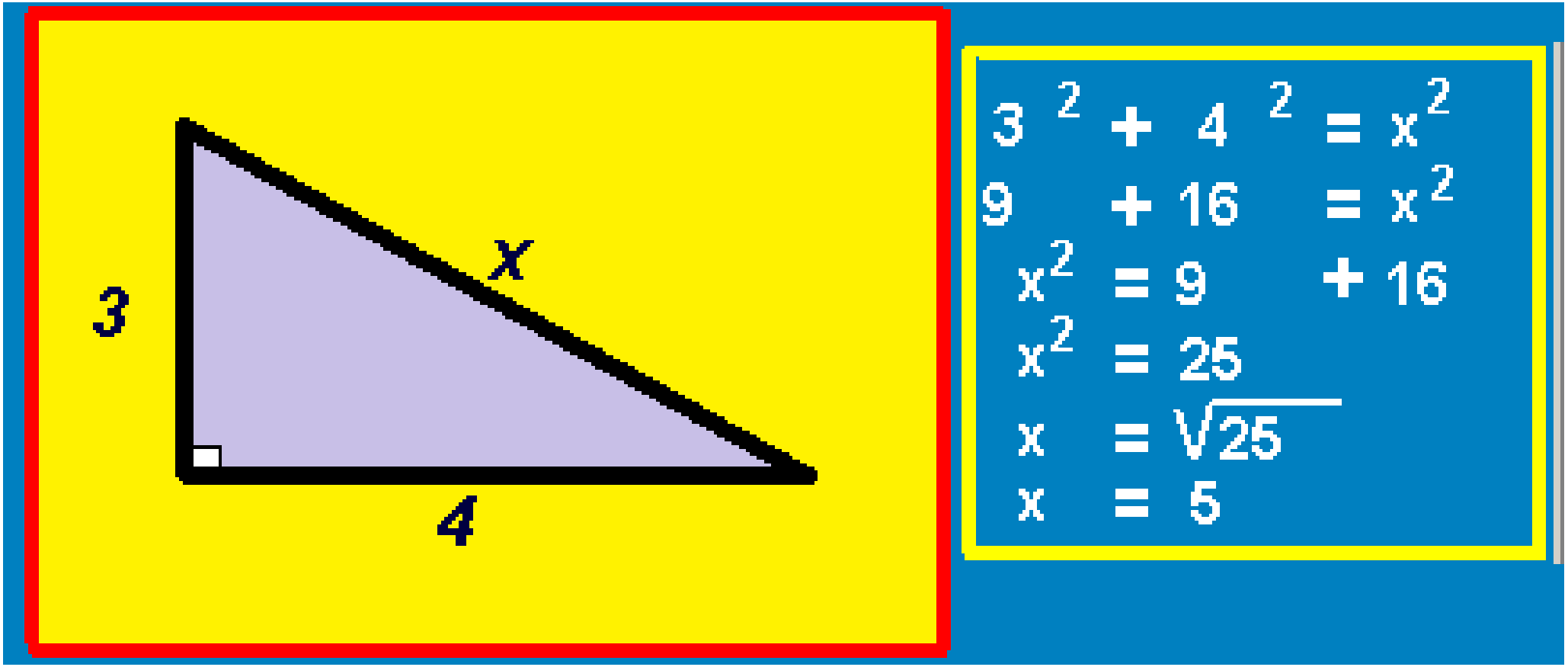

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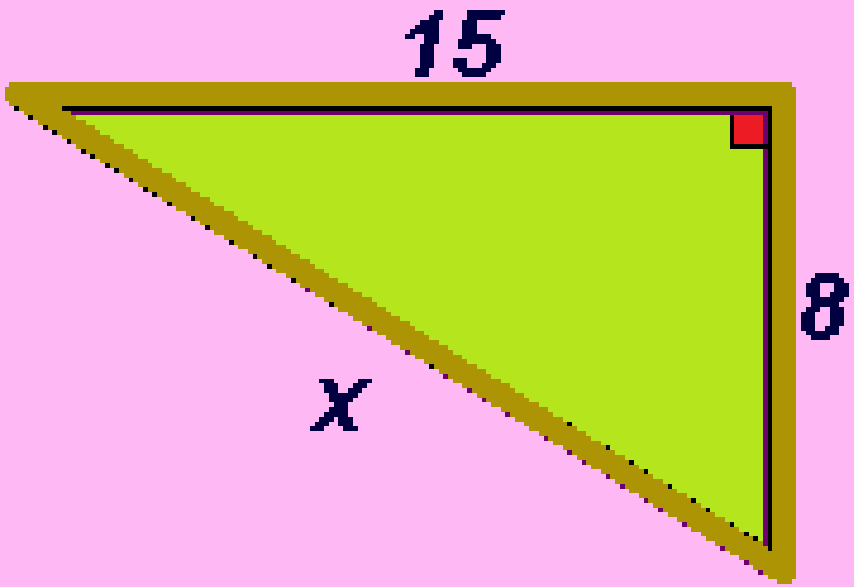

$$8^2 + 15^2 = x^2$$
$$64 + 225 = x^2$$
$$x^2 = 64 + 225$$
$$x^2 = 289$$
$$x = \sqrt{289}$$
$$x = 17$$

Pythagorean theorem – examples

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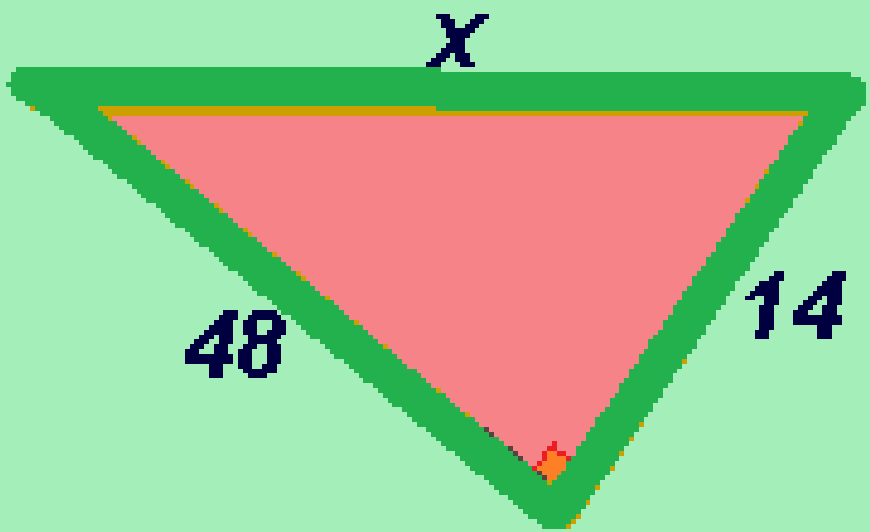

$$14^2 + 48^2 = x^2$$
$$196 + 2304 = x^2$$
$$x^2 = 196 + 2304$$
$$x^2 = 2500$$
$$x = \sqrt{2500}$$
$$x = 50$$

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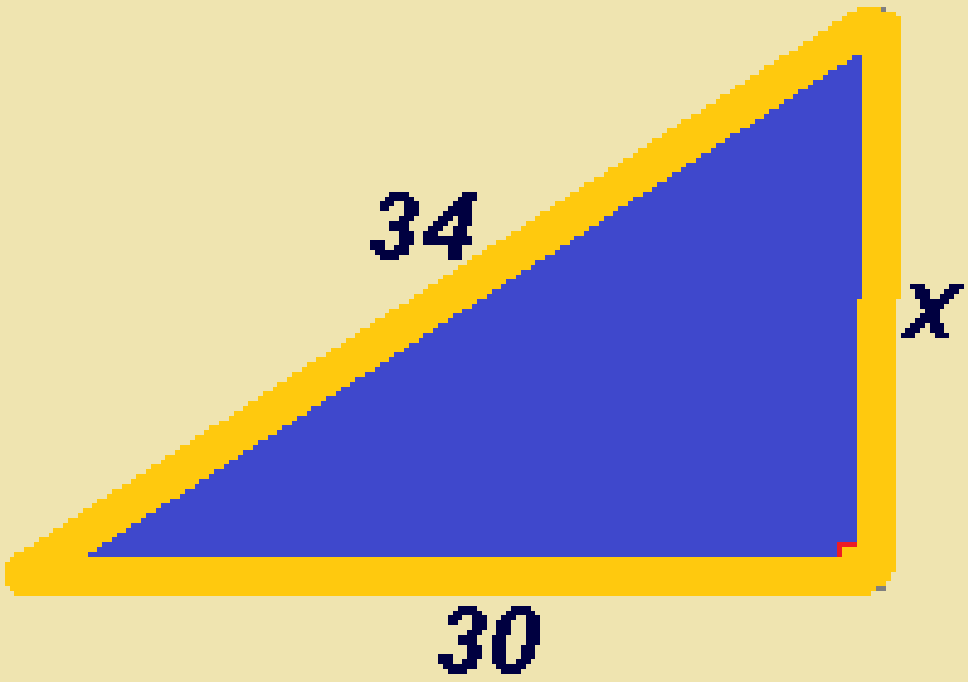

$$x^2 + 30^2 = 34^2$$
$$x^2 + 900 = 1156$$
$$x^2 = 1156 - 900$$
$$x^2 = 256$$
$$x = \sqrt{256}$$
$$x = 16$$

Pythagorean theorem – examples

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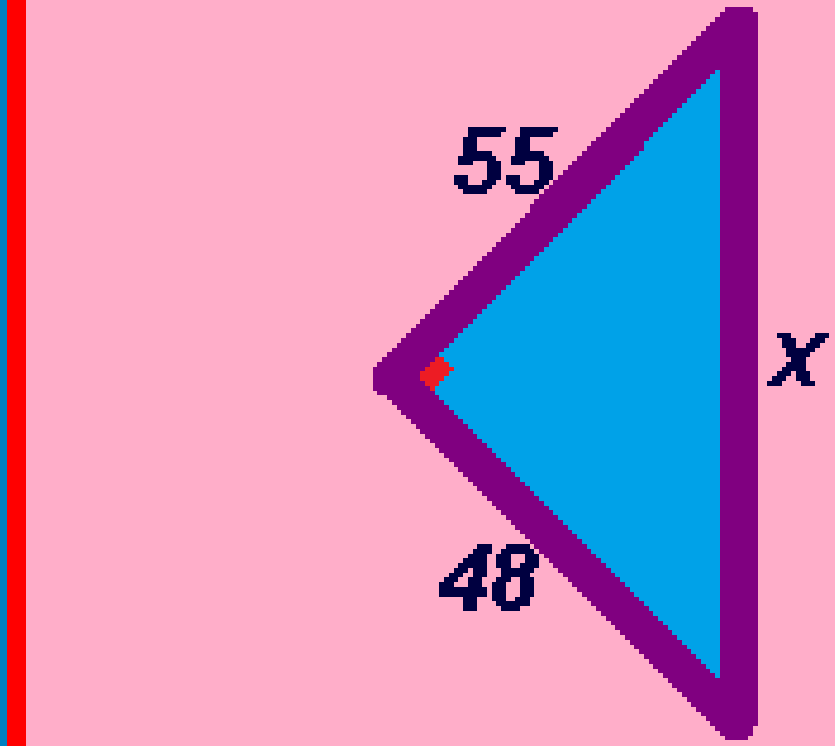

$$48^2 + 55^2 = x^2$$
$$2304 + 3025 = x^2$$
$$x^2 = 2304 + 3025$$
$$x^2 = 5329$$
$$x = \sqrt{5329}$$
$$x = 73$$

Pythagorean theorem – examples

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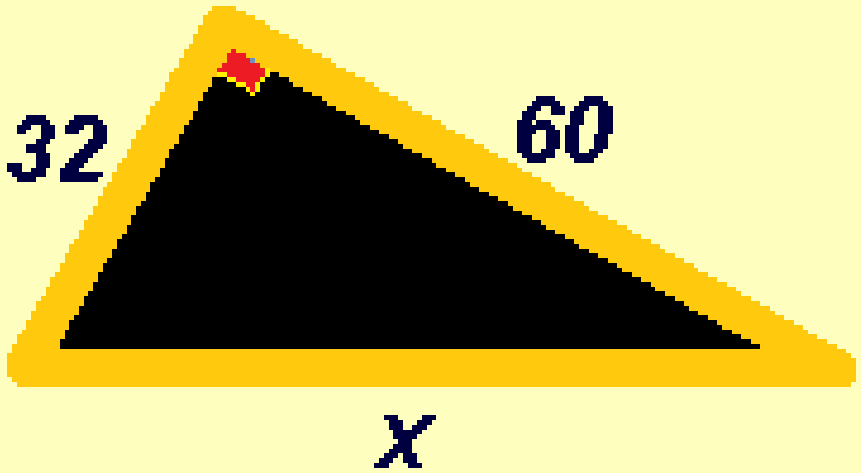

$$32^2 + 60^2 = x^2$$
$$1024 + 3600 = x^2$$
$$x^2 = 1024 + 3600$$
$$x^2 = 4624$$
$$x = \sqrt{4624}$$
$$x = 68$$

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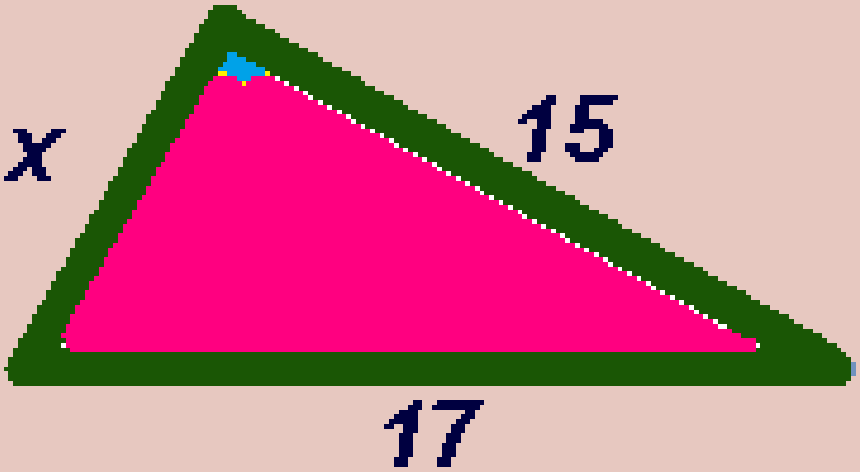

$$x^2 + 15^2 = 17^2$$
$$x^2 + 225 = 289$$
$$x^2 = 289 - 225$$
$$x^2 = 64$$
$$x = \sqrt{64}$$
$$x = 8$$

Pythagorean theorem – examples

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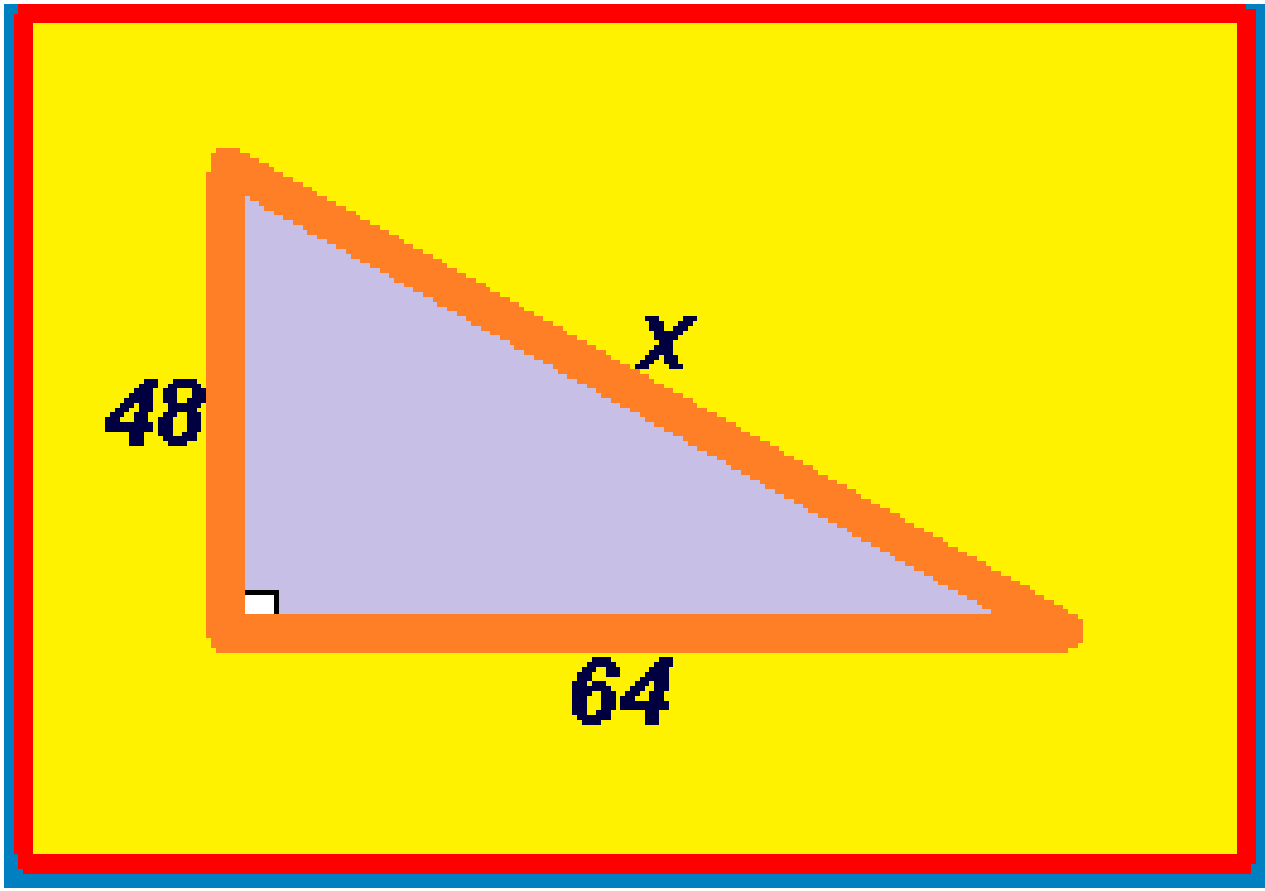

$$48^2 + 64^2 = x^2$$
$$2304 + 4096 = x^2$$
$$x^2 = 2304 + 4096$$
$$x^2 = 6400$$
$$x = \sqrt{6400}$$
$$x = 80$$

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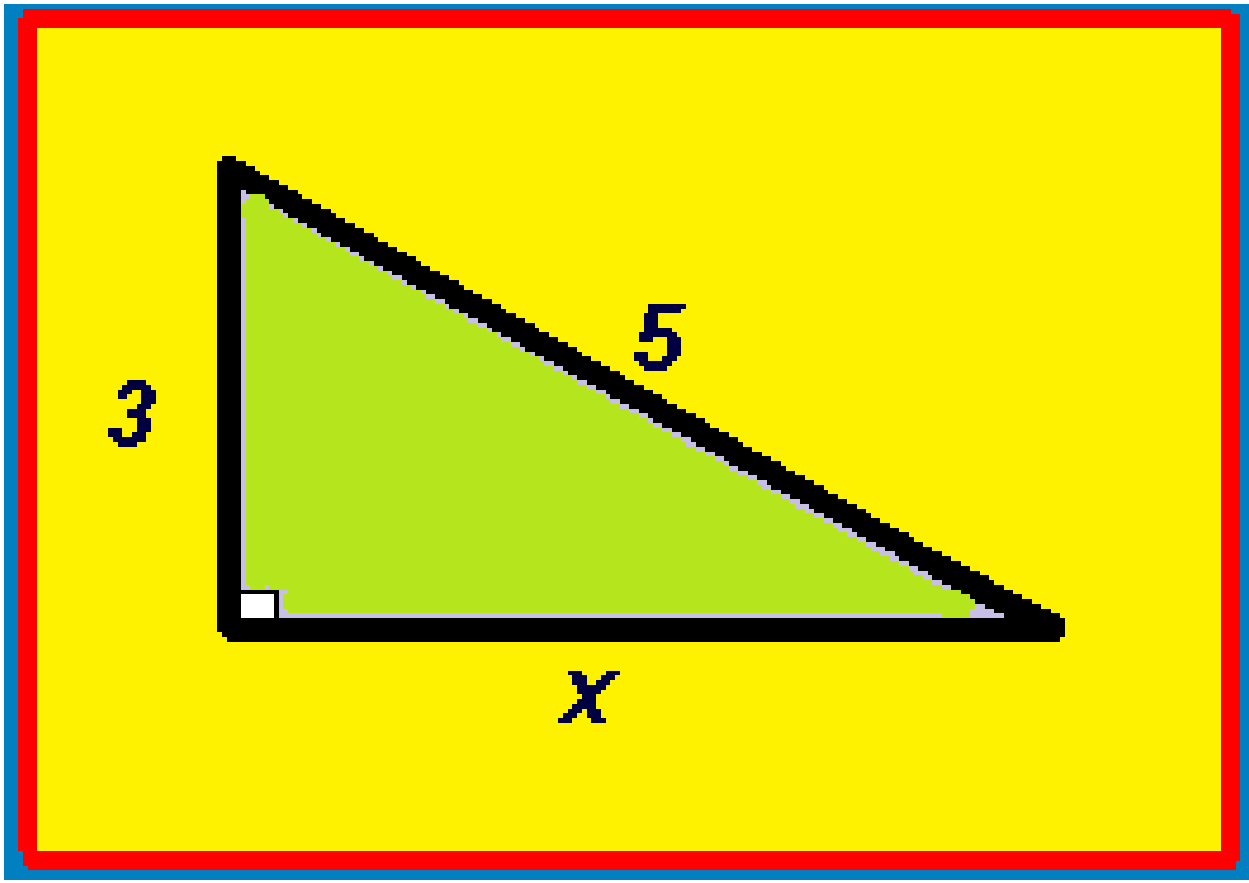

$$x^2 + 3^2 = 5^2$$
$$x^2 + 9 = 25$$
$$x^2 = 25 - 9$$
$$x^2 = 16$$
$$x = \sqrt{16}$$
$$x = 4$$

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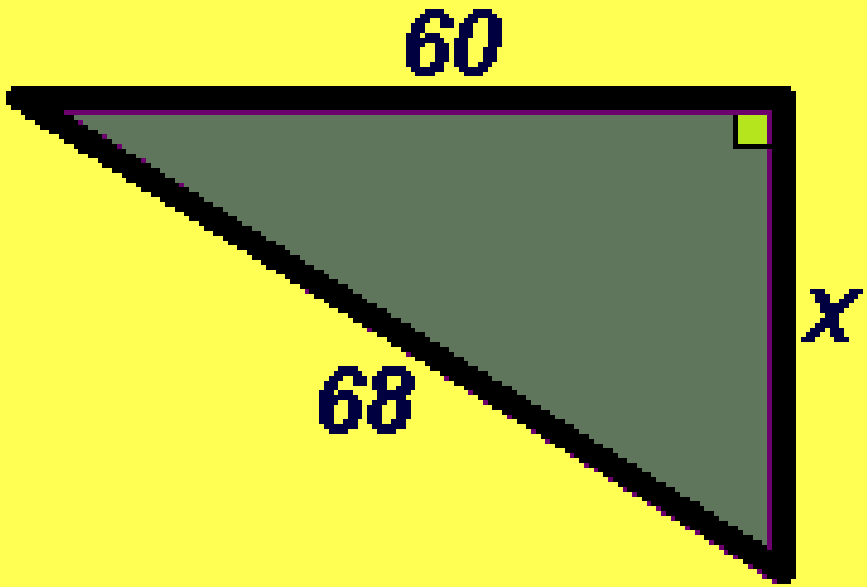

$$x^2 + 60^2 = 68^2$$
$$x^2 + 3600 = 4624$$
$$x^2 = 4624 - 3600$$
$$x^2 = 1024$$
$$x = \sqrt{1024}$$
$$x = 32$$

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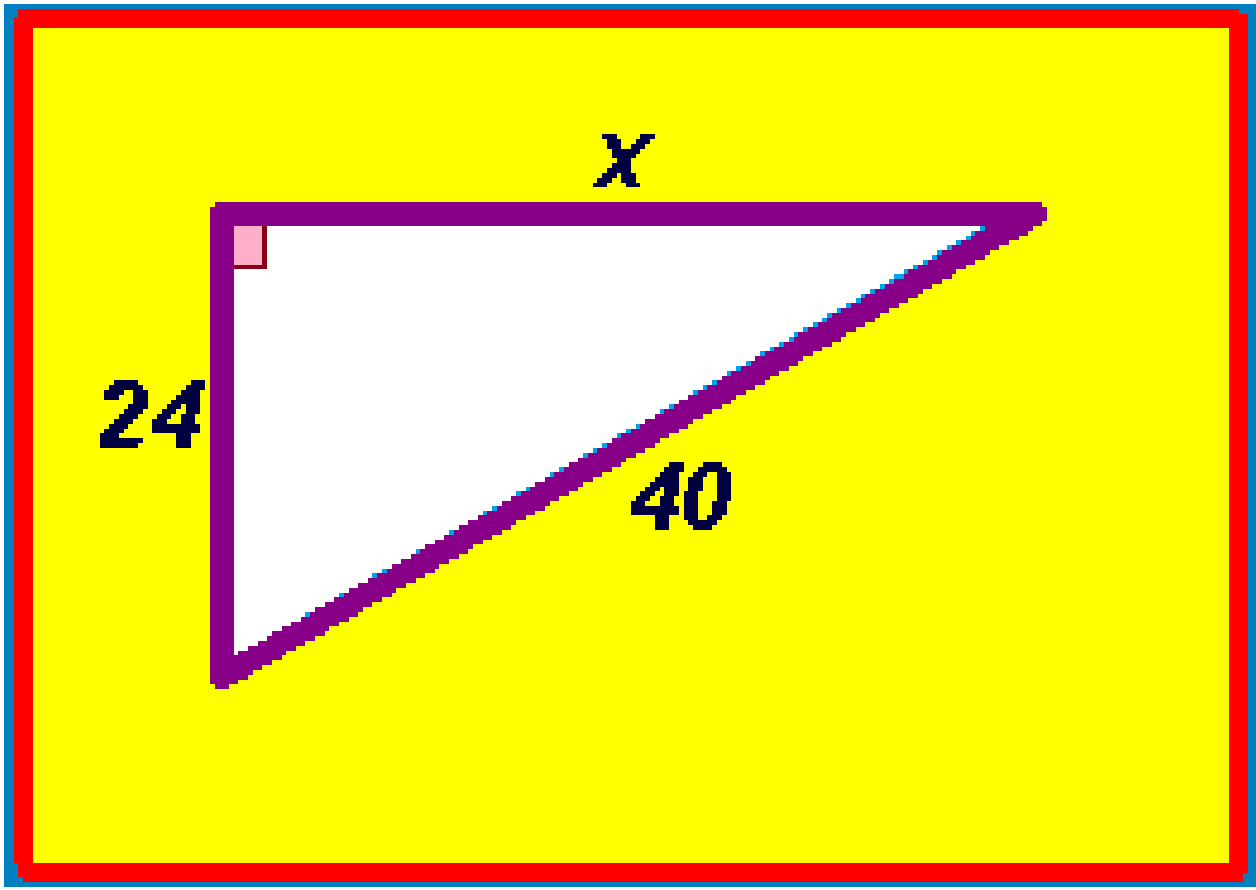

$$x^2 + 24^2 = 40^2$$
$$x^2 + 576 = 1600$$
$$x^2 = 1600 - 576$$
$$x^2 = 1024$$
$$x = \sqrt{1024}$$
$$x = 32$$

Pythagorean theorem – examples

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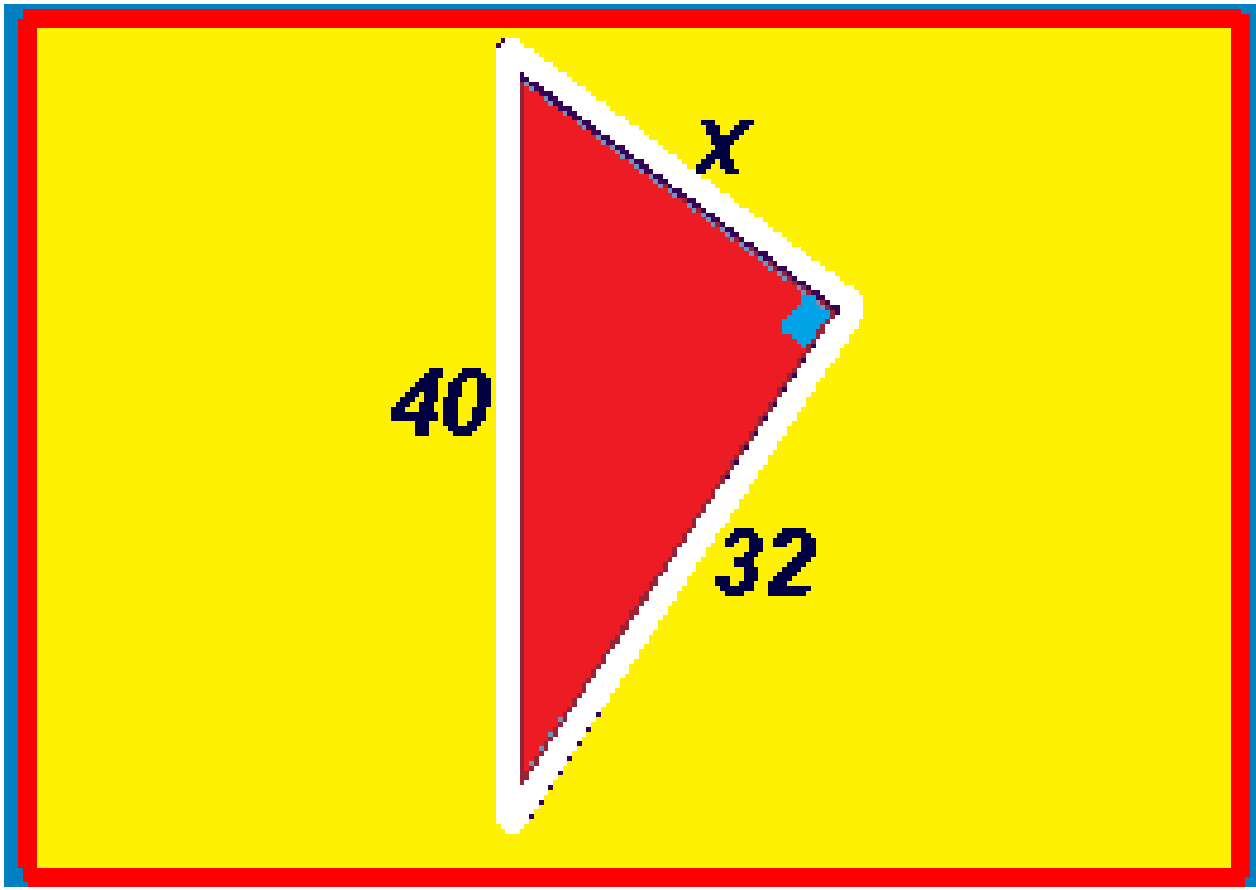

$$x^2 + 32^2 = 40^2$$
$$x^2 + 1024 = 1600$$
$$x^2 = 1600 - 1024$$
$$x^2 = 576$$
$$x = \sqrt{576}$$
$$x = 24$$

Pythagorean theorem – examples

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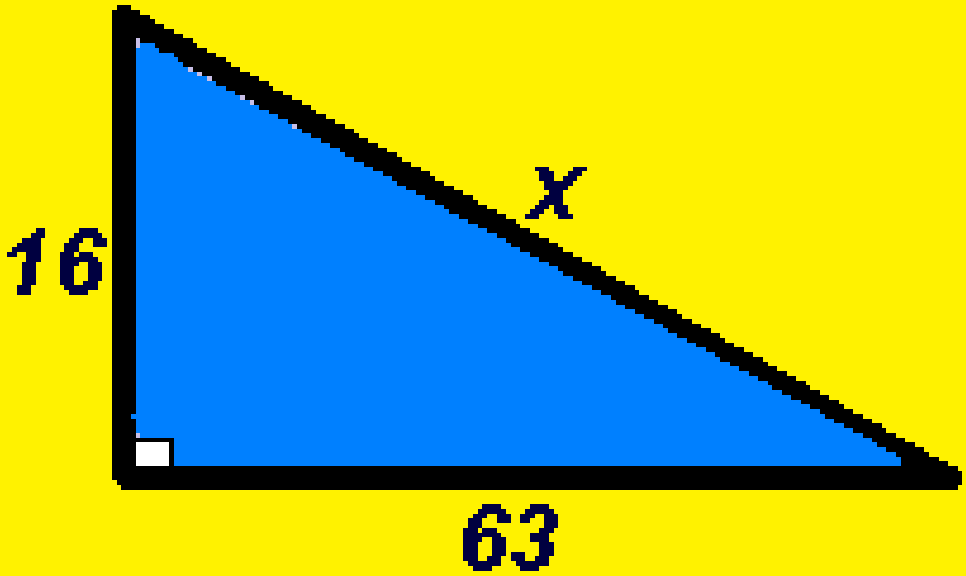

$$16^2 + 63^2 = x^2$$
$$256 + 3969 = x^2$$
$$x^2 = 256 + 3969$$
$$x^2 = 4225$$
$$x = \sqrt{4225}$$
$$x = 65$$

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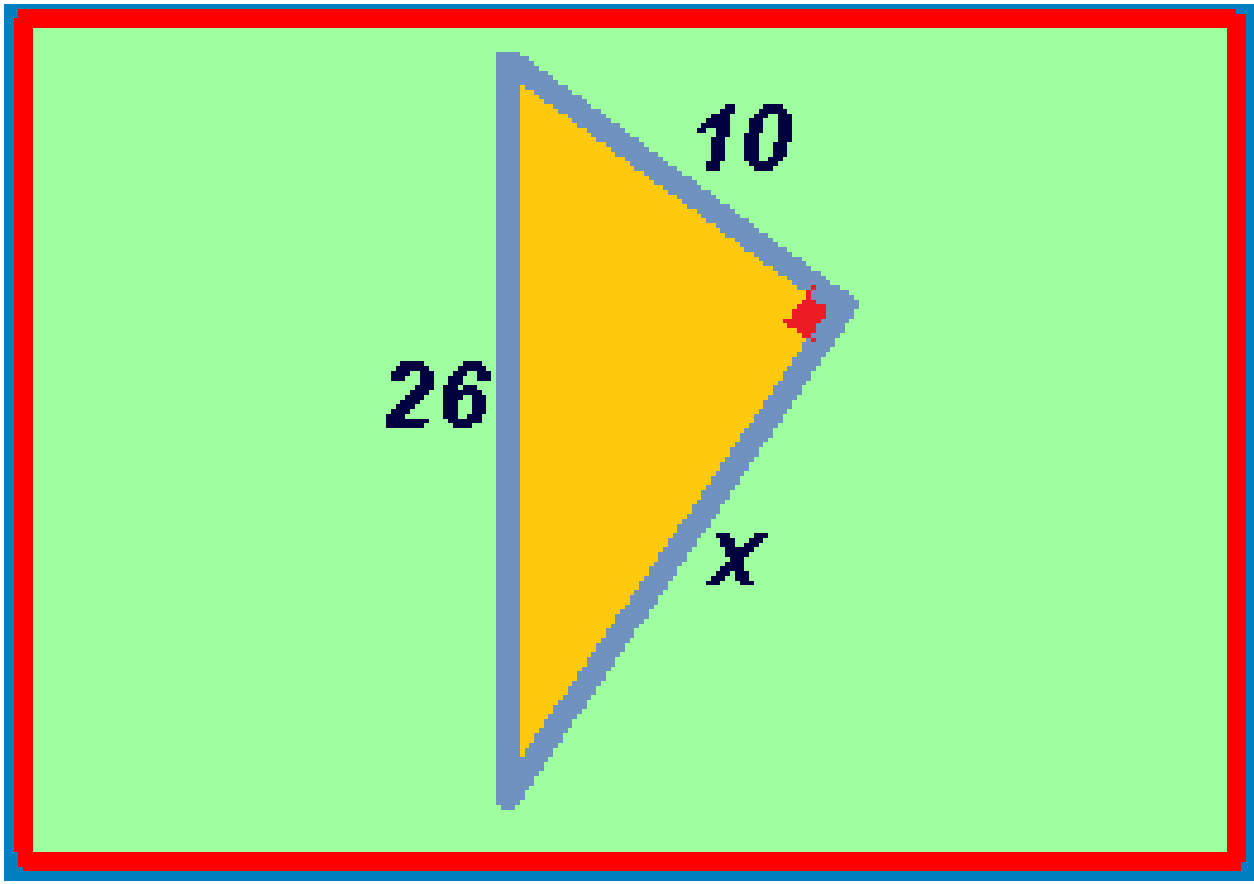

$$x^2 + 10^2 = 26^2$$
$$x^2 + 100 = 676$$
$$x^2 = 676 - 100$$
$$x^2 = 576$$
$$x = \sqrt{576}$$
$$x = 24$$

Pythagorean theorem – examples

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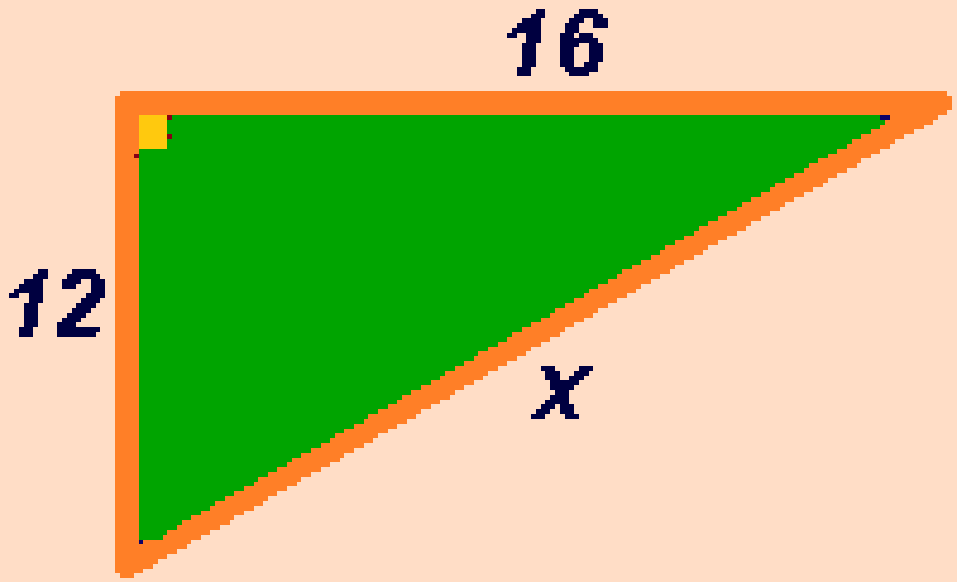

$$12^2 + 16^2 = x^2$$
$$144 + 256 = x^2$$
$$x^2 = 144 + 256$$
$$x^2 = 400$$
$$x = \sqrt{400}$$
$$x = 20$$

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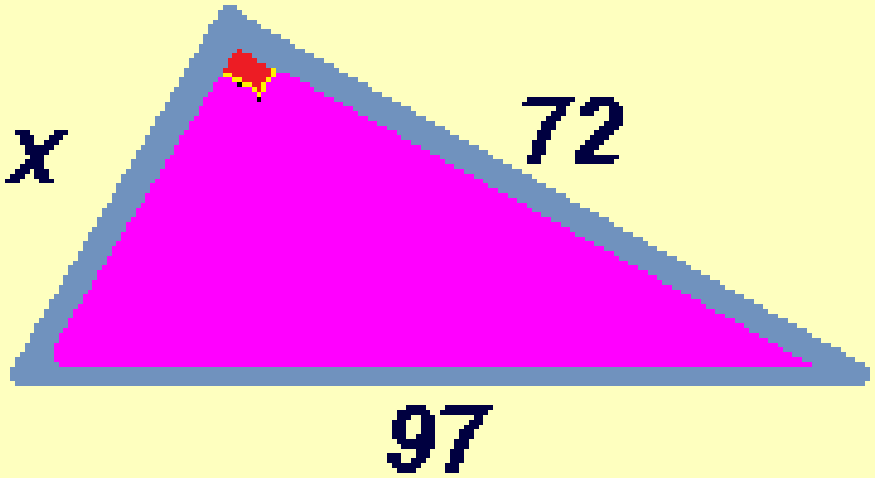

$$x^2 + 72^2 = 97^2$$
$$x^2 + 5184 = 9409$$
$$x^2 = 9409 - 5184$$
$$x^2 = 4225$$
$$x = \sqrt{4225}$$
$$x = 65$$

Pythagorean theorem – examples

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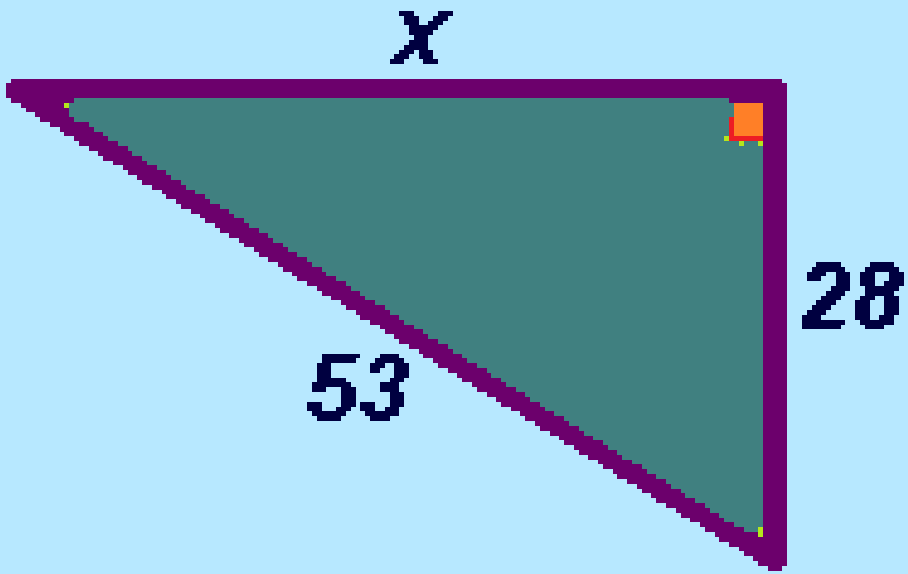

$$x^2 + 28^2 = 53^2$$
$$x^2 + 784 = 2809$$
$$x^2 = 2809 - 784$$
$$x^2 = 2025$$
$$x = \sqrt{2025}$$
$$x = 45$$

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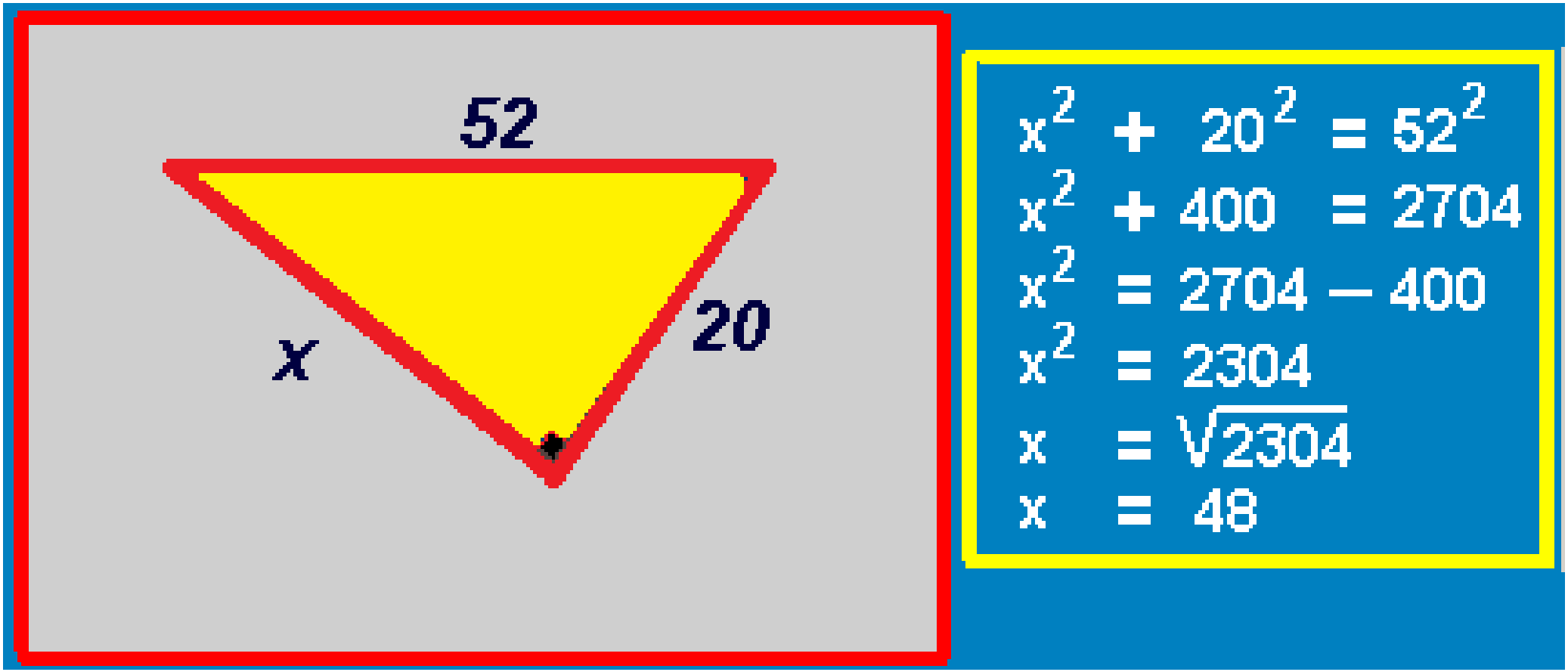

$$x^2 + 20^2 = 52^2$$
$$x^2 + 400 = 2704$$
$$x^2 = 2704 - 400$$
$$x^2 = 2304$$
$$x = \sqrt{2304}$$
$$x = 48$$