



Name: _____



1) Solve:

a) $x^2 = 9$

$x = \pm 3$

d) $x^2 = 144$

$x = \pm 12$

b) $x^2 = 49$

$x = \pm 7$

e) $x^2 = 36$

$x = \pm 6$

c) $x^2 = 16$

$x = \pm 4$

f) $x^2 = 256$

$x = \pm 16$

2) Solve:

a) $x^2 - 5 = 31$

$x = \pm 6$

d) $x^2 - 2 = 79$

$x = \pm 9$

b) $x^2 + 3 = 12$

$x = \pm 3$

e) $x^2 + 1 = 26$

$x = \pm 5$

c) $x^2 + 7 = 23$

$x = \pm 4$

f) $x^2 - 7 = 93$

$x = \pm 10$

3) Solve:

a) $4x^2 = 100$

$x = \pm 5$

e) $4x^2 + 5 = 69$

$x = \pm 4$

b) $4x^2 = 64$

$x = \pm 4$

f) $2x^2 - 12 = 60$

$x = \pm 6$

c) $5x^2 = 45$

$x = \pm 3$

g) $3x^2 + 9 = 84$

$x = \pm 5$

d) $2x^2 = 98$

$x = \pm 7$

h) $2x^2 + 15 = 23$

$x = \pm 2$

4) Solve:

a) $\frac{x^2}{4} + 5 = 9$

$x = \pm 4$

c) $\frac{x^2}{3} + 3 = 6$

$x = \pm 3$

b) $\frac{x^2}{2} - 8 = 10$

$x = \pm 6$

d) $\frac{x^2}{5} + 80 = 100$

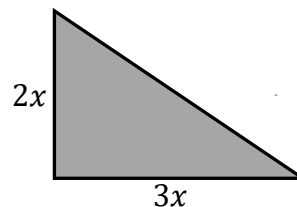
$x = \pm 10$

Exam question:

The triangle has two dimensions as shown in the diagram (units are in cm).

The area is 150 cm^2 .

Find the value of x .



$x = 5 \text{ cm}$

