



Name: \_\_\_\_\_



1) Solve:

a)  $x^2 = 9$

b)  $x^2 = 49$

c)  $x^2 = 16$

d)  $x^2 = 144$

e)  $x^2 = 36$

f)  $x^2 = 256$

2) Solve:

a)  $x^2 - 5 = 31$

b)  $x^2 + 3 = 12$

c)  $x^2 + 7 = 23$

d)  $x^2 - 2 = 79$

e)  $x^2 + 1 = 26$

f)  $x^2 - 7 = 93$

3) Solve:

a)  $4x^2 = 100$

b)  $4x^2 = 64$

c)  $5x^2 = 45$

d)  $2x^2 = 98$

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

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

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

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

4) Solve:

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

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

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

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

**Exam question:**

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

The area is  $150 \text{ cm}^2$ .

Find the value of  $x$ .

