

Algebra Test Review

1. Simplify

a. $3x^2 - 7x^2$

b. $17 - 3x + 5x - 1$

c. $(x^2 - 4) - (3x^2 - 1)$

d. $(3x - 2) + (x^2 - 5x + 7)$

2. Expand

a. $4(3x - 5)$

b. $2x(5x - 3)$

3. Expand and simplify

a. $7(2h - 3) + 2h$

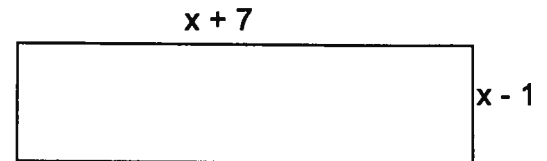
b. $3(2x + 1) - 2(5x - 3)$

4. Solve for the unknown

a. $8x = 5x - 12$

b. $6x - 3 = 8x + 7$

5. Find a simplified expression for the perimeter.



6. John rented a go-kart for the day. The cost for the rental is described by the equation

$$C = 7.50h + 1.25l$$

C is the total cost for the go-kart

h is the number of hours he rents the go-kart and

l is the number of litres of gas he uses.

Peter was charged \$56.25 for the rental. He used 27 litres of gas. How many hours did he drive the go-kart?