1

Which value of x satisfies the equation $\dfrac{5}{12}\left(\dfrac{9}{40}-x\right)=25$?

    1 -60.225
    2 -59.775
    3 -25.09375
    4 -24.90625

2 What is the value of x in the equation?

$$\frac{x-3}{3}+\frac{x-4}{6}=\frac{1}{3}$$

    1 6
    2 2
    3 3
    4 4

3 Which expression is equivalent to $4(6g-5)-(3g+4)$?

    1 $27g-24$
    2 $3g-5$
    3 $21g-16$
    4 $21g-24$

4

What is the solution to the inequality $2+\dfrac{4}{9}x\ge 4+x$?

    1 $x\le-\dfrac{18}{5}$

    2 $x\ge-\dfrac{18}{5}$

    3 $x\le\dfrac{54}{5}$

    4 $x\ge\dfrac{54}{5}$

5

The formula for density is $d=\dfrac{m}{V}$. The volume, V, may be expressed as

    1 dm

    2 $\dfrac{m}{d}$

    3 $\dfrac{d}{m}$

    4 $d-m$

6 The formula for slope of a line is $m = \dfrac{y_2 - y_1}{x_2 - x_1}$. When the formula is solved for y_2, the result can be expressed as the expression

1 $m(x_2 - x_1) + y_1$

2 $\dfrac{m(x_2 - x_1)}{y_1}$

3 $m(x_2 - x_1) - y_1$

4 $\dfrac{m + y_1}{(x_2 - x_1)}$

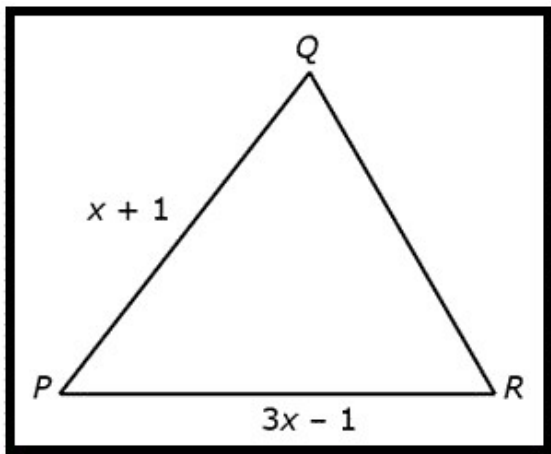**7** Which trinomial is equivalent to $3(x - 5)^2 - 4(x - 1)$?

1 $3x^2 - 34x + 79$

2 $3x^2 - 4x - 11$

3 $3x^2 - 34x + 71$

4 $x^2 - 9x + 20$

8 The perimeter of the triangle below is $8x - 6$.

Which expression represents the length of $\overline{QR}$?

1 $4x - 4$
2 $4x - 6$
3 $6x - 4$
4 $6x - 8$

9 Which value would be a solution for x in the inequality $47 - 4x < 7$?

1 -13
2 -10
3 10
4 11

10 Which graph shows a line where each value of *y* is **three more than twice** *x*?

1

3

2

4