

Grade 8 – quiz 2

► Choose the correct answer from the given ones :

- 1 If $(X + 2, y) = (2, 3)$ What is the value of : $X^5 y + 1$?
- (a) 3 (b) 2 (c) 1 (d) 0
- 2 If $X = \{1, 2\}$, $Y = \{6, 4\}$, then $\in (6, 4)$
- (a) $X \times Y$ (b) $Y \times X$ (c) X^2 (d) Y^2
- 3 If $n(X \times Y) = 20$, $n(X^2) = 16$, then $n(Y^2) =$
- (a) 4 (b) 5 (c) 9 (d) 25
- 4 What is the domain of the relation $\{(1, 3), (2, 3), (3, 4), (4, 4)\}$?
- (a) $\{3, 4\}$ (b) $\{1, 2, 3\}$ (c) $\{1, 2, 3, 4\}$ (d) $\{1, 2\}$
- 5 If $f(X) = X - 2$ What is the value of : $f(0) + f(4)$?
- (a) 0 (b) 2 (c) 4 (d) 6

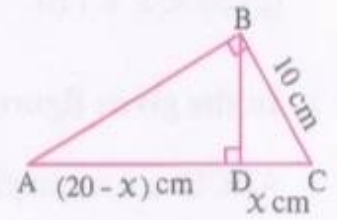
Find the solution set of the equation : $3(\sqrt{2}X + 4) - 5 = 19$ in \mathbb{R}

► Choose the correct answer from the given ones :

1 In the given figure :

What is the value of x ?

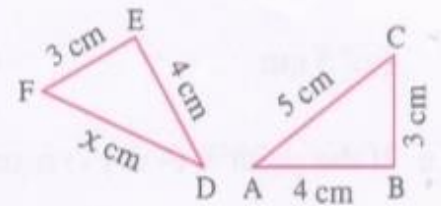
- (a) 2 (b) 3
(c) 5 (d) 10



2 In the given figure :

What are the values of x that make $m(\angle E) > m(\angle B)$?

- (a) $3 < x < 4$ (b) $5 < x < 7$
(c) $5 < x$ (d) $x > 7$



Find the solution set of the inequality : $3x - 5 \leq 2(x - 2) \leq 3x + 5$ in \mathbb{R}

What is the diameter length of a circle whose area is $144 \pi \text{ cm}^2$?

(a) 12 cm.

(b) 6 cm.

(c) 144 cm.

(d) 24 cm.

If the circumference of a circle = C and the length of the circle's diameter = d what is the value of $\frac{C}{d}$?

(a) π

(b) $\frac{1}{2} \pi$

(c) 2π

(d) $\frac{3}{2} \pi$

In the given figure :

Find the value of : x

