

MCQ

- 1) If a point $(0, h)$ lies on the side of a kite which passes through $(-1, 0)$ and $(1, 6)$, which of the following is the value of h ?
a) $h = -1$ b) $h = 1$ c) $h = 2$ d) $h = 3$
- 2) A side of a parallelogram is passing through the points $(1, 2)$ and $(-7, 6)$. Identify the value of k if the point $(k, 4)$ lies on the side of the parallelogram.

- a) $k = 6$
- 3) Which of the following lines is parallel to the line passing through $(-2, 3)$ and $(3, -2)$ and is perpendicular to the diameter of a circle with centre $(-1, 2)$ and radius 5?

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- d) $k = -4$
- a) $m = 5$
- d) $m = 4$
- 4) If $(2, r)$ lies on the line $3x - 2y = 10$ and $(5, 4)$, which of the following is the value of r ?
- d) $r = 0$
- 5) Identify the value of g if the line $3x + 2y = 12$ is parallel to the line $2x + 3y = 6$ and is perpendicular to the hypotenuse of a right-angled triangle which passes through the points $(-2, 3)$ and $(3, -2)$.
- d) $g = -6$
- 6) The diagonal of a rectangle has the end points $(-2, 2)$ and $(-2, -2)$. If $(-4, f)$ lies on that diagonal, then which of the following is the value of f ?

- a) $r = -1$
- a) $g = 7$
- a) $f = 0$ b) $f = 5$ c) $f = -1$ d) $f = 8$
- 7) The diagonal of the rectangle has the end points $(2, -5)$ and $(6, -7)$. Identify the value of n , if the point on that diagonal of the rectangle is $(n, -6)$.
a) $n = -2$ b) $n = 3$ c) $n = 5$ d) $n = 4$