

1. $2^a 2^b$ equals

- (a) 2^{a+b} (b) 2^{ab} (c) 4^{ab} (d) 4^{a+b}

2. $\frac{1}{(x+y)^2} = (x+y)^{-2} = x^{-2} + y^{-2}$?

- (a) True (b) False

3. $\sqrt{x^2 - 16} = x - 4$?

- (a) True (b) False

4. $x = 1$ is a root of the equation

$$2x^3 - 4x^2 + 11x - 9?$$

- (a) True (b) False

5. $\frac{x}{x+1}$ equals

- (a) 1 (b) $1 - \frac{1}{x+1}$ (c) $\frac{1}{2}$ (d) $\frac{1}{x}$ (e) 0

1. $2x + 2y = 9$ is the equation of a
(a) circle, $r = 3$ (b) circle, $r = 9$
(c) straight line.
2. $\frac{1}{3x + 2}$ equals
(a) $\frac{1}{x} + \frac{1}{2}$ (b) $\frac{1}{3}x + \frac{1}{2}$ (c) neither.
3. $(x + 5)x - 1$ equals
(a) $x^2 + 4x - 5$ (b) $x^2 + 5x - 1$
(c) neither
4. $x + 2(x - 3)$ equals
(a) $3x - 6$ (b) $x^2 - x - 6$ (c) neither
5. $-2(x + y^2) = -2x + 2y^2$
(a) True (b) False

