

PAPER 2

Answers

1. a) $3y = x + 15$ b) $A(-9, 2)$ c) $y = 5x - 17$

2. a) $k = 6$ b) $x = -2/3$

3. a) $a = 9p^2$; $b = -6p$; $c = \frac{1}{2}p$ b) $p = 2$

4. a) $P(3, 12)$; $Q(4, 0)$ b) $24\frac{1}{12}$ units²

5. a) $p = 6$ b) $(0, -8)$

c) $2y = 3x - 42$ d) $(x - 7)^2 + (y + 4)^2 = 65$

6. $a = 2$

7. a) $p = -\frac{1}{4}$; $q = -\frac{17}{16}$ b) 0.25 radians

8. a) $f(x) = x^3 + \frac{10}{x} - 10$ b) $f(1) = 1$