

*Algebraic Fractions and Equations***Answers**

4

4.

x	-3	-2	-1	0	1	2	3	4
$y = 9 - x^2$	0	5	8	9	8	5	0	-7

(e) $(-1, 8)$ and $(3, 0)$

(f) $x = -1, y = 8$ and $x = 3, y = 0$

5. (a) $x = 3, y = 4$ and $x = 0, y = -5$

(b) $x = 3, y = 6$ and $x = -3, y = -6$

(c) $x = -2, y = 2$ (There is only one solution here which means that the line is actually a tangent to the circle.)

(d) $x = 2, y = 8$ and $x = -3.2, y = -7.6$

(e) $x = -4, y = -3$ and $x = 3, y = -4$

(f) $x = 3.11, y = -3.22$ and $x = -0.71, y = 4.42$

6. $(4.65, -0.65)$ and $(-0.65, 4.65)$

7. (d) P $(10, 0)$ and Q $(-10, 0)$

(e) R $(\sqrt{10}, 3\sqrt{10})$

(f) $30\sqrt{10}$ units²

(h) $\frac{3}{1 - \sqrt{10}}$