

- 1 a)  $x = 1 \frac{2}{3} \left( \frac{20}{3} \right)$  b)  $x = 3 (4)$  c)  $a = -7 (-10)$  d)  $z = 1 (1)$  e)  $x = 2 (10)$  f)  $y = -14 (-49)$   
g)  $x = -1 (12)$  h)  $x = \frac{1}{4} (14)$  i)  $x = 1 (5)$  j)  $x = \frac{2}{3} (0)$
- 2 a)  $a = -1 (0)$  b)  $a = \frac{2}{3} (0)$  c)  $x = 3 (10)$  d)  $z = -\frac{1}{3} (4)$
- 3  $x = 5 (95)$
- 4 a)  $x = 30$  b)  $x = -6$
- 5 a)  $x = 15$  b)  $x = 6$  c)  $x = -6$
- 6 a)  $h_a = \frac{O - a^2}{2a}$  b)  $h = \left( \frac{O}{2r\pi} \right) - r$  c)  $s = \left( \frac{O}{r\pi} \right) - r$
- 7 a)  $r = 5,376 \text{ dm}$  b)  $\alpha = 66^\circ$
- 8 a)  $U = 30 \text{ V}$  b)  $I = 0,46 \text{ A}$
- 9 a)  $0,0001 \text{ m}^2, F = 10 \text{ N}$  b)  $3\,000 \text{ N}, A = 125 \text{ cm}^2$
- 10 a)  $y = 14$  b)  $x = 0,16$  c)  $x = 7,6$
- 11 a)  $x = 3 (13)$  b)  $x = 2 (-6)$  c)  $x = 1 (-1)$  d)  $z = -1 (5)$
- 12 a)  $x = -20$  b)  $x = 13$
- 13  $x = 48$
- 14 a)  $G = \frac{O - M}{2}$  b)  $d = \frac{M}{\pi \cdot h}$  c)  $h = \frac{V}{r^2 \cdot \pi}$  d)  $h = \frac{O}{2r \cdot \pi} - r$  e)  $h = \frac{O}{d \cdot \pi} - \frac{d}{2}$