



1 $x = 12$	2 62.8 m	3 $y = 6x - 8$	4 $2\sqrt{2}$	5 500 grams	6 Since $6.5^2 = 6^2 + 2.5^2$ triangle is right angled by the converse of Pythagoras.
7 $8x^5$	8 -14	9 $2x^3 + x^2 - 38x + 35$	10 2.94	11 $x = 4$ $y = 1$	12 $(3c + 5)(c - 1)$
13 $1 \frac{23}{27}$	14 $r = \sqrt{\frac{e-1}{9}}$	15 270 mm^3	16 $y = (x + 2)^2 - 6$	17 $p = 27^\circ$ $q = 126^\circ$	18 $\frac{8x + 44}{(x + 3)(x + 7)}$
19 $\frac{4\sqrt{6}}{3}$	20 212.4 cm^2	21 $\text{£}6886.38$	22 $y = 3x^2$	23 27	24 $m = -\frac{5}{3}$ $c = 3$
25 3.5	26 80.82 cm	27 $\frac{x-6}{x-3}$	28 8 cm	29 $\sqrt{133}$	30 $x = 34.8^\circ$ $x = 145.2^\circ$