① 36

② 57.6

③ $\frac{25}{4}$

④ proof

⑤ 18.3%

⑥ $\frac{7}{3}$

⑦ $y = \frac{100}{9x^4}$

⑧ $h = \frac{120}{\sqrt{E}}$

⑨ i) $y \propto x^2$

ii) $y = 16x^2$

⑩ −7.5

⑪ a) $y = \frac{9}{x^2}$

b) $\frac{3}{4}$