Scrap paper is available but write your final solution clearly in the space provided

[1] B

[2] The ratio of the areas of two similar triangles is equivalent to the square of the ratio of the side lengths. If the ratio of the side lengths of triangle A to triangle B is 1:2, then the ratio of the areas is 1:4.

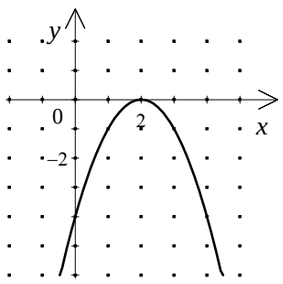
[3] 14:11; 196:121

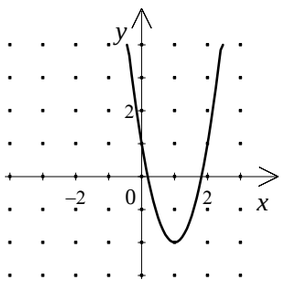
[4] D

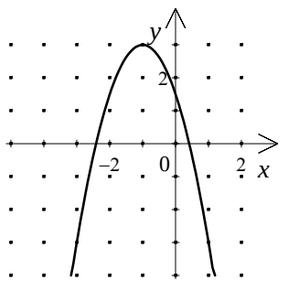
[5] D

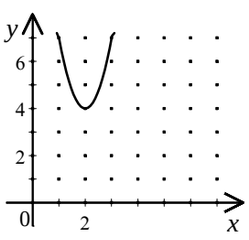
[6] A

[7] a) *x*-intercept 2; *y*-intercept –4; (1, –1), (3, –1), (4, –4), (5, –9), ...
b) *x*-intercepts 1.8 and 0.2; *y*-intercept 1; (1, –2), (2, 1), (3, 10), (–1, 10), ...
c) *x*-intercepts –2.4 and 0.4; *y*-intercept 1.5; (0, 1.5), (–2, 1.5), (1, –3), (–3, –3), ...
d) no *x*-intercept; *y*-intercept 16; (1, 7), (2, 4), (3, 7), (4, 16), ...

a) 

b) 

c) 

d) 

[8] a) (4, 2) b) (4, 11) c) $(-4, -5)$
d) $\left(-\frac{5}{2}, \frac{3}{2}\right)$ e) (–11, –19) f) $\left(\frac{1}{2}, -\frac{1}{5}\right)$