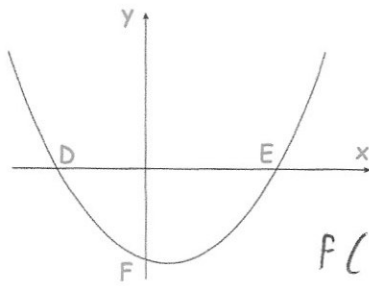
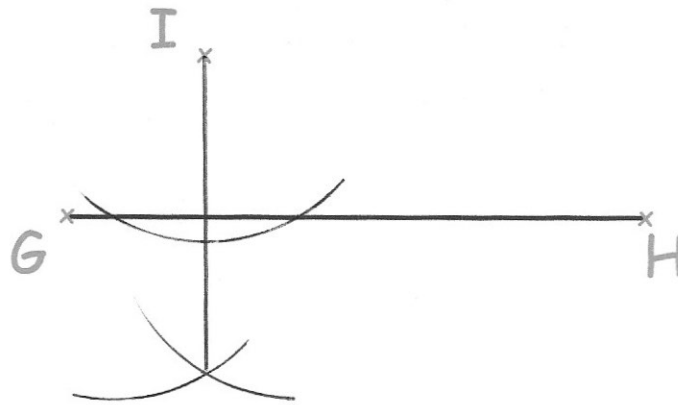


Using a ruler and compasses, construct the perpendicular from the line GH to the point I.

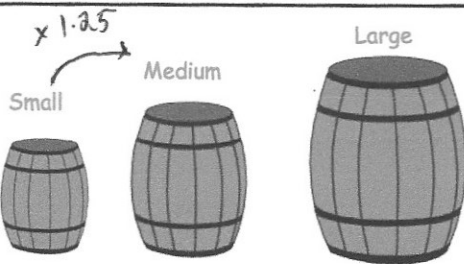


$D(-\frac{5}{3}, 0)$   
 $E(5, 0)$   
 $F(0, -25)$

Shown is the graph  $y = 3x^2 - 10x - 25$

Find the coordinates D, E and F

$0 = 3x^2 - 10x - 25$   
 $0 = (x - 5)(3x + 5)$   
 $x = 5$  or  $x = -\frac{5}{3}$



$240 \div 100 = 2.4$   
 $\sqrt[3]{2.4} = 1.338...$

Complete the table.  $100 \times 1.25^3$

	Height	Capacity
Small	24 inches	100 litres
Medium	30 inches	195.3125 litres
Large	32.1327 inches	240 litres

Simplify  $1.338... \times 24 = 32.1327$

$$\frac{9x^2 - 1}{3x^2 - 13x + 4}$$

$$\frac{(3x-1)(3x+1)}{(3x-1)(x-4)}$$

$$\frac{3x+1}{x-4}$$