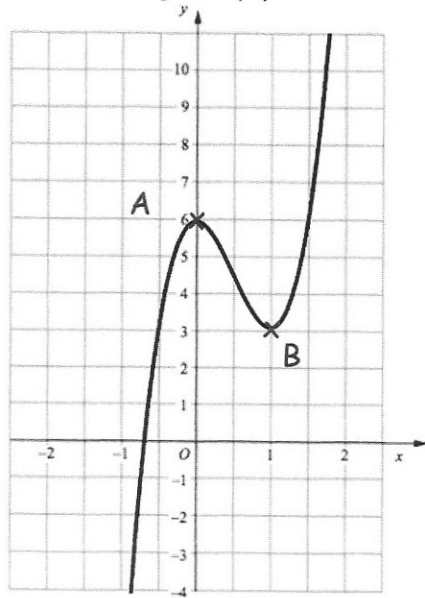
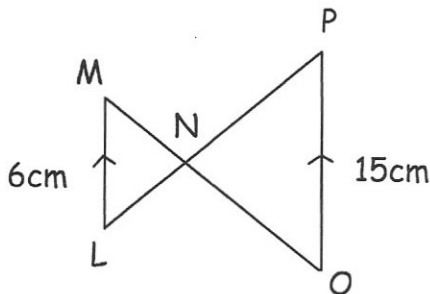
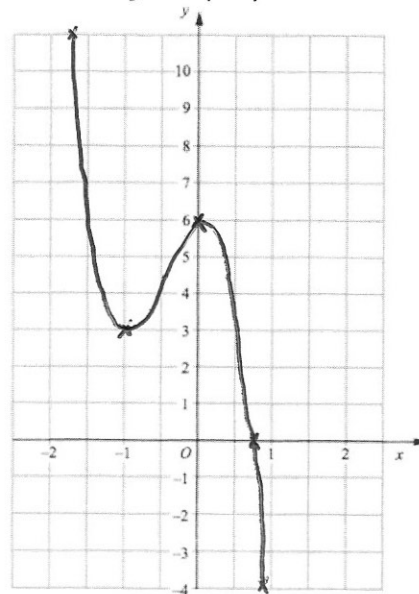




Shown is $y = f(x)$



Sketch $y = f(-x)$



Explain why triangles LMN and NOP are similar

$\angle MNL = \angle PNO$ vertically opposite
 $\angle LNO = \angle POM$ alternate angles
 $\angle LPO = \angle MLP$ alternate angles
 AAA

There are 10 socks in a drawer.

5 are white

3 are black

2 are red

Heather takes two socks at random from the drawer.

$$P(WW) = \frac{5}{10} \times \frac{4}{9} = \frac{20}{90}$$

$$P(BB) = \frac{3}{10} \times \frac{2}{9} = \frac{6}{90}$$

$$P(RR) = \frac{2}{10} \times \frac{1}{9} = \frac{2}{90}$$

Work out the probability that Heather has picked 2 socks of the same colour.

$$\frac{28}{90} = \frac{14}{45}$$

$$f(x) = 3x - 1$$

$$g(x) = x^2 + 8$$

$$3(x^2 + 8) - 1$$

$$3x^2 + 24 - 1$$

Find

$$fg(x)$$

$$3x^2 + 23$$