

National 5

Short Task 23

Round all answers to an appropriate degree of accuracy unless specifically stated

1. Write without brackets

$$(p^2q^{1/2})^4$$

2. After a discount of one third is applied, a coat costs £164.

Calculate the full price of the coat.

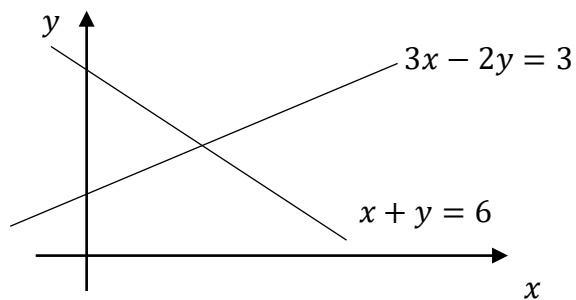
- 3a. Fully factorise

$$3x^2 - 27$$

- 3b. Hence simplify

$$\frac{x^2 - 3x - 18}{3x^2 - 27}$$

4. Find the point of intersection of the straight lines shown in the diagram below.



5. Simplify

$$\sqrt{18} + 4\sqrt{2} - \sqrt{8}$$

6. Express as a single fraction in its simplest form

$$\frac{2a}{(a+6)} - \frac{5}{(a-3)}$$