

3rd April

Higher 5-a-day



Corbettmaths

Line 1 $y = 2x + 1$

Line 2 $y = \frac{1}{2}x - 4$

Line 3 $y = x + 1$

Line 4 $y = -\frac{1}{2}x - 3$

Line 5 $y = 10 + x$

Which two lines are parallel?

3 & 5

Which two lines are perpendicular?

1 & 4

Write down the equation of the line parallel of $y = 2x + 5$ that passes through the point $(1, 10)$

$$y = 2x + 8$$

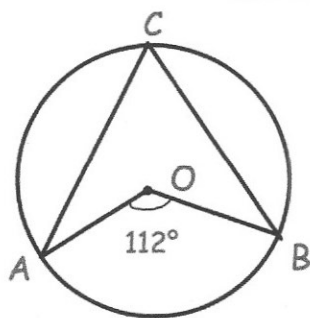
Convert $1.2\bar{4}$ into a mixed number

$$\begin{aligned} x &= 1.2444\dots \\ 10x &= 12.444\dots \\ 100x &= 124.444\dots \end{aligned}$$

$$90x = 112$$

$$x = \frac{112}{90} = \frac{56}{45}$$

$$x = 1\frac{11}{45}$$



Find angle ACB

56°

A bag contains 10 counters.
7 of the counters are red
2 of the counters are purple
1 of the counters are white
Erin chooses a counter at random, records the colour, then replaces it.
Erin then chooses a second counter at random and records the colour.

What is the probability that both counters are the same colour?

$$\frac{7}{10} \times \frac{7}{10} = \frac{49}{100}$$

$$\frac{2}{10} \times \frac{2}{10} = \frac{4}{100}$$

$$\frac{1}{10} \times \frac{1}{10} = \frac{1}{100}$$

$$\begin{array}{r} 54 \\ 100 \\ \hline 27 \\ 50 \end{array}$$