
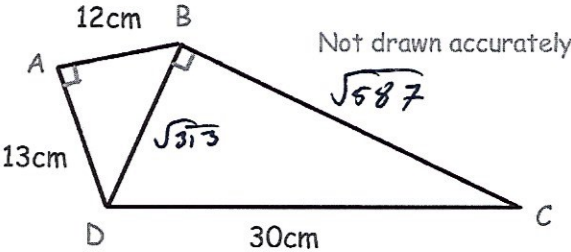


19th April	
$f(x) = \frac{8}{x}$ $g(x) = x - 7$ Solve $fg(x) = x$ $fg(x) = \frac{8}{x-7}$	 CorbettmOths $\frac{8}{x-7} = x$ $8 = x^2 - 7x$ $x = 8$ or $x = -1$ $x^2 - 7x - 8 = 0$ $(x-8)(x+1) = 0$
Write the following as a single fraction, in its simplest form. $\frac{7}{6a} + \frac{a^2}{8}$ $\frac{28}{24a} + \frac{3a^3}{24a}$	$\frac{3a^3 + 28}{24a}$
Factorise $15x^2 + 32x + 16$ $(3x+4)(5x+4)$	
Hence factorise $15(y-7)^2 + 32(y-7) + 16$ $x = y-7$ $[3(y-7)+4][5(y-7)+4]$	$(3y-17)(5y-31)$
 <p>Not drawn accurately</p>	Calculate the area of triangle BCD $BD^2 = 12^2 + 13^2$ $BD^2 = 313$ $BD = \sqrt{313}$ $BC^2 = 30^2 - (\sqrt{313})^2$ $BC = \sqrt{587}$ $\text{Area } \triangle BCD = \frac{1}{2} \times \sqrt{313} \times \sqrt{587}$ $= 214.32 \text{ cm}^2$