22nd April

Corbettmαths

Work out

$$\frac{8}{4x^3} + \frac{7}{3x^2} \qquad \frac{24}{12x^3} + \frac{28x}{12x^3}$$

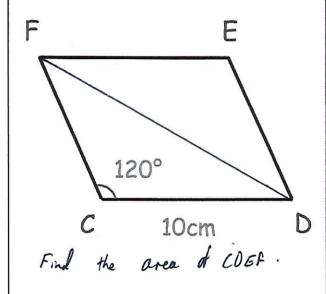
Give your answer as a single fraction in its simplest form

$$= \frac{24+28x}{12x^3}$$

$$= \frac{12+14x}{6x^3}$$

$$= \frac{6+7x}{6+7x}$$

CDEF is a rhombus.



Area D COF: 2 × 10 × 10 × 5/20 = 2553 Area CDEF = 5053 cm²

A curve has equation $y = 4x^2 + 2x - 3$

A normal to the curve is drawn at the point A.

The normal is parallel to the line with equation x - 6y = 2 $y = \frac{1}{6}x - \frac{1}{3}$

Find the equation of the normal at the point A.

Give your answer in the form y = mx + c

 $\frac{dy}{dx} = 8x + 2$ 8x + 2 = -6 8x = -8 x = -1 y = -1 y = -6x + c $c = -\frac{7}{2}$ $y = -\frac{7}{4} + c$ $c = -\frac{7}{2}$