Expanding Trinomials

$$E_{x} 1 \qquad (2x+3)(x+1)(3x+4)$$

$$= (2x^{2}+3x+2x+3)(3x+4)$$

$$= (2x^{2}+5x+3)(3x+4)$$

$$= (2x^{2}+5x+3)(3x+4)$$

$$= 6x^{3}+15x^{2}+9x$$

$$+ 8x^{2}+20x+12$$

$$= 6x^{3}+23x^{2}+29x+12$$

Ex2
$$(7 \times -1)(x + a)(x - 3)$$

 $(2x^{2} - x + 8x - 4)(x - 3)$
 $(7x^{2} + 7x - 4)(x - 3)$
 $2x^{3} + 7x^{2} - 4x$
 $-6x^{2} - 2(x + 12)$
 $2x^{3} + x^{2} - 25x + (2)$

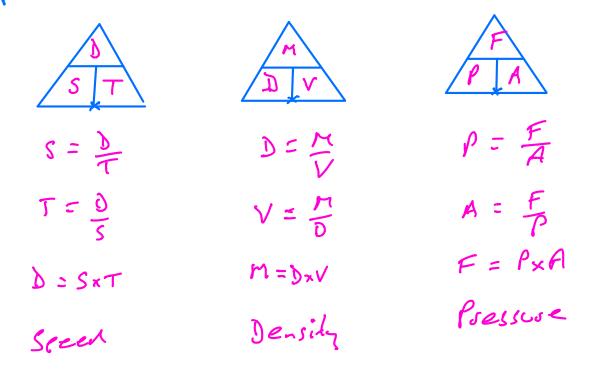
Exercise

$$(3x + i)(x+3)(2x+5)$$

= $(3x^{2}+x+9x+3)(2x+5)$
= $(3x^{2}+6x+3)(2x+5)$
= $(5x^{3}+20x^{2}+6x)$

+15x2 + 50x + 15 $6x^{3} + 35x^{2} + 56x + 15$

Compound Measures



Ause Spech	C	Total Diit	Ause = Densety	Total Mass
		Total Time		Total Vol

Exi If I travel from A toB at a speed of 40 km/h for 2 hours and then travel 60 km from B to C at 20 km/h, what was my hourage speed. speed time distance A toB 40 km/h 2 hos 80 km B to C 20 km/h 3 has 60 km Takel 5 has 140 km

Bounds
I run 100 m to the nearest metre
in 12.8 s to the nearest 0.1 of a second
Find my nax and in speeds

$$99.5m \in dist < 100.5m$$

 $12.75 \leq time \leq 12.85$
 $spech = \frac{d!st}{time}$

