Due date for Derby Racers:

Tuesday, Nov. 22nd

Put your name on your work!

Check Pinnacle for missing assignments

Acceleration If You know:

If you know	You can find	By using	Units
v_0, v, t	a	$a = \frac{v - v_0}{t}$	$\frac{m}{s^2}$ + DIRECTION
a, v_0, v	t	$t = \frac{v - v_0}{a}$	s
a, v_0, t	v	$v = v_0 + at$,	$\frac{m}{s}$ + DIRECTION
a, v, t	v_0	$v_0 = v - at$	$\frac{m}{s}$ + DIRECTION

Rat is running with velocity of 7.2 m/s. It accelerates at 4.2 m/s² for 11.5 s. What is its final velocity?

1. ① $v_0 = 7.2$ m/s, $a = 4.2$ m/s², $t = 11.5$ s

② v_f

③ $v = v_0 + at$

④ $v = 7.2 + (4.2)(11.5) = 55.5$

⑤ $v = 55.5$ m/s forwards