Finding Equations

For each of the following, choose an equation and solve for the missing variable.

1. $v_i = 0$ m/s , $a = 2.5$ m/s^2 , $t = 3.5$ s , $v_f = ?$

2. $\Delta d = 5000$m , $v_i = 3.0$ m/s , $v_f = 17$ m/s , $a = ?$

3. $\Delta d = 30$m, $\Delta t = 1.4$ s , $a = 6.2$ m/s^2 , $v_i = ?$

4. $\Delta d = 365.5$m , $v_f = 5.0$ m/s , $v_i = 6.59$ m/s , $\Delta t = ?$

5. $\Delta d = 65.8$ m , $v_f = 3.82$ m/s , $a = -0.53$ m/s^2 , $\Delta t = ?$

6. $v_f = 7.65$ m/s , $v_i = 3.72$ m/s , $\Delta t = 8.3$s , $\Delta d = ?$

7. $v_f = 9.75$ m/s , $v_i = 20.3$ m/s , $a = -2.56$ m/s^2 , $\Delta d = ?$