TRI FACTORING AGAIN

Factoring Quadratics

Factor each of the following expressions.

1) $8x^2+30x+7$

2) $12m^2-26m-10$

3) $-8k^2+10k$

4) $5w^2-13w+6$

Solving Quadratics

Solve each of the following quadratic equations.

5) $-12n^2+n+20=0$

6) $8x^2+5x-4=2x^2-8x+1$

7) A rocket scientist presses the button to launch the rocket but the button malfunctions. So, 2 seconds later the rocket launches. The path of the rocket can be modeled by the equation $h(t)=-12t^2+74t-100$. Use the equation to determine how long after the button was pressed the rocket lands on the ground.

8) A skydiver jumps from an altitude of 10,000 feet. Ignoring air resistance, the distance above the ground, d, of the skydiver can be modeled by $d(t)=-16t^2+10000$, where t is time measured in seconds. How long will it take for the skydiver to be 3,600 feet away from the ground?