MTH 1825 Practice (	uiz for the Discriminant and Q	Juadratic Applications
MITH TOZO PTACIICE (	Juiz ioi tile Disci illillialit allu Q	ruaui auc Applications

1.	Use the discriminant to determine the number of real solutions of $2x^2 - 5x - 3 = 0$ .
	Discriminant: Number of real solutions:
2.	Use the discriminant to determine the number of real solutions of $49x^2 - 56x + 16 = 0$ .
	Discriminant: Number of real solutions:
3.	A ball is thrown from a height of 65 meters with an initial downward velocity of 10 m/sec. The ball's height $h$ (in meters) after $t$ seconds is given by $h = 65 - 10t - 5t^2$ . How long after the ball is thrown does it hit the ground? Round to the nearest hundredth.
	Answer: