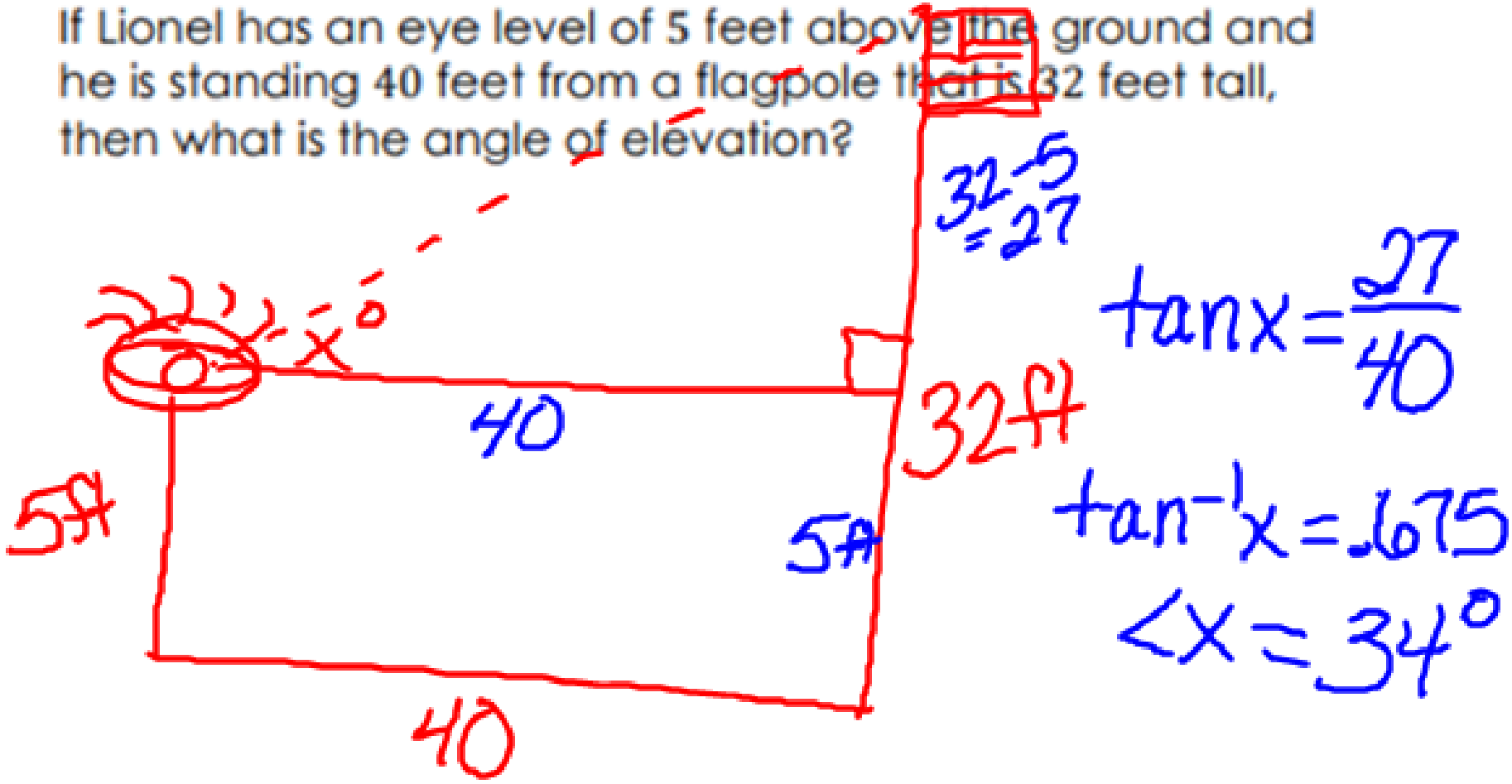
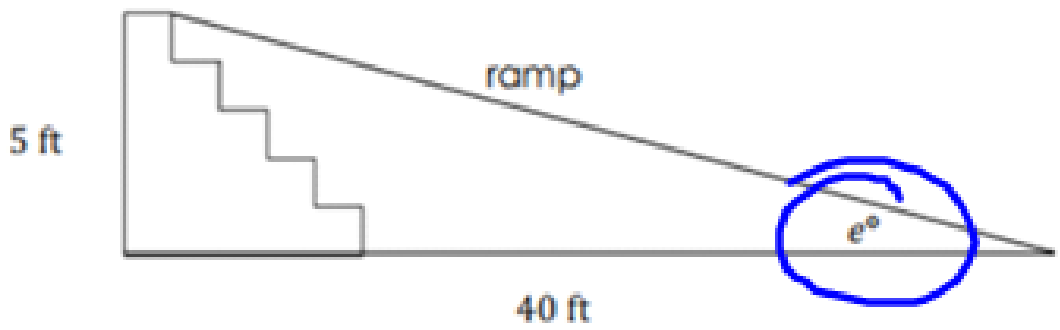
If Lionel has an eye level of 5 feet above the ground and he is standing 40 feet from a flagpole that is 32 feet tall, then what is the angle of elevation?



Yandel will place a ramp over a set of stairs at the backyard entrance so that one end is 5 feet off the ground. The other end is at a point that is a horizontal distance of 40 feet away, as shown in the diagram. The angle of elevation of the ramp is represented by $e°$.



What is the angle of elevation to the nearest tenth of a degree?

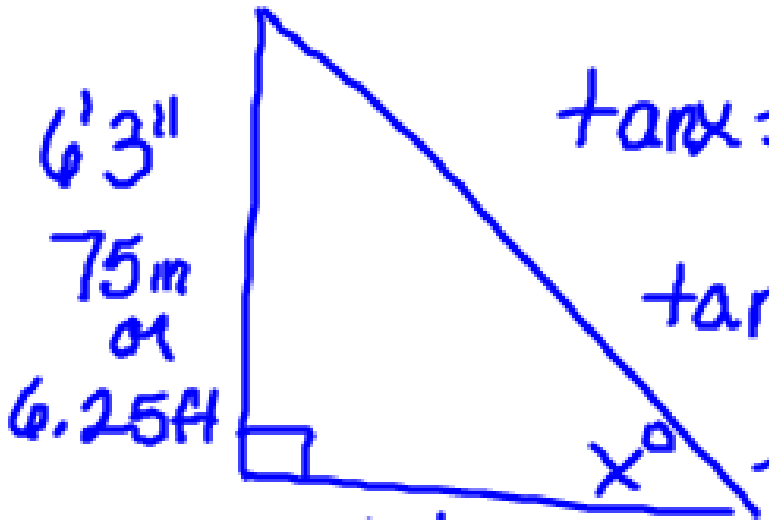
$\tan e = \frac{5}{40}$

$\tan e^{-1} = .125$

$\angle e = 7.1$

A man is 6 feet 3 inches tall. The tip of his shadow touches a fire hydrant that is 13 feet 6 inches away. What is the angle of elevation from the base of the fire hydrant to the top of the man's head? Round to the nearest tenth of a degree.

(A) 24.8°
(B) 34.5°
(C) 42.6°
(D) 65.2°



$\tan x = \frac{75}{162}$

$\tan^{-1} x = .4630$

$x = 24.8^\circ$