



6. A tightrope is stretched 30 feet above the ground between the Jay and the Tee buildings, which are 50 feet apart. A tightrope walker, walking at a constant rate of 2 feet per second from point A to point B , is illuminated by a spotlight 70 feet above point A , as shown in the diagram.
- How fast is the shadow of the tightrope walker's feet moving along the ground when she is midway between the buildings? (Indicate units of measure.)
 - How far from point A is the tightrope walker when the shadow of her feet reaches the base of the Tee Building? (Indicate units of measure.)
 - How fast is the shadow of the tightrope walker's feet moving up the wall of the Tee building when she is 10 feet from point B ? (Indicate units of measure.)

END OF EXAMINATION.