

# 8

## DYNAMICS II: MOTION IN A PLANE

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### Conceptual Questions

**8.1.** For an object in uniform circular motion the speed is constant (that's what uniform means), the angular velocity is constant, and the magnitude of the net force is constant. The velocity and centripetal acceleration are both vectors whose magnitude is constant but whose direction changes.

**8.2.** The free-body diagram (a) is correct. The forces acting on the car at the bottom of the hill are the downward gravitational force and an upward normal force. The car can be considered to be in circular motion about a point above the bottom center of the valley, which requires a net force toward the center of the circle. In this case, the circle center is above the car, so the normal force is greater than the gravitational force.

**8.3.**  $T_c > T_a = T_d > T_b$ . Use  $T = \frac{mv^2}{r}$ . For (a),  $T_a = \frac{mv^2}{r}$ . For (b),  $T_b = \frac{mv^2}{2r} = \frac{1}{2}T_a$ . For (c),  $T_c = \frac{(2m)v^2}{r} = 2T_a$ .

For (d),  $T_d = \frac{(2m)v^2}{2r} = T_a$ .

**8.4.** The tension in the vine at the lowest part of Tarzan's swing is greater than the gravitational force on Tarzan. If Tarzan is at rest on the vine, just hanging, the tension in the vine is equal to the gravitational force on Tarzan. But when Tarzan is swinging he is in circular motion, with the center of the circle at the top end of the vine, and the vine must provide the additional centripetal force necessary to move him in a circle.

**8.5.** (a) The difference in the tension between A and B is due to the centripetal force  $(F_c)_{\text{net}} = \frac{mv^2}{r}$ . Since the velocity  $v$  is the same for both, the greater radius for B means that the tension in case A is greater than for case B.

(b) In this case, we use  $(F_c)_{\text{net}} = m\omega^2 r$ . The angular velocity  $\omega$  is the same for both A and B, so the larger radius for B means that the tension in case A is less than the tension for case B.

**8.6.** Neither Sally nor Raymond is completely correct. Both have partially correct descriptions, but are missing key points. In order to speed up, there must be a nonzero acceleration parallel to the track. In order to move in a circle, there must be a nonzero centripetal acceleration. Since both of these are required, the net force points somewhere between the forward direction (parallel to the track) and the center of the circle.

**8.7.** (a) The plane is in dynamic equilibrium, so the net force on the plane is zero.

(b) The vertical forces cancel, and so do the horizontal forces, so the net force is zero. The plane is traveling in the positive  $x$  direction.

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