

Monday

An airplane takes off and climbs at a constant rate. After traveling 800 yards horizontally, the plane has climbed 285 yards vertically. What is the plane's angle of elevation during the takeoff and initial climb?

- A 15.6°
- B 18.4°
- C 19.6°
- D 22.3°

Tuesday

Suppose a Ferris wheel has a diameter of 68 feet. The wheel rotates 12° each time a new passenger is picked up. How far would you travel when the wheel rotates 12° ? Round to the nearest tenth if necessary.

- A 7.1 ft
- B 7.5 ft
- C 7.8 ft
- D 14.2 ft

Wednesday

What is the remainder when $x^3 - 7x + 5$ is divided by $x + 3$?

- F -11
- G -1
- H 1
- J 11

Thursday

The graph of which of the following equations is symmetrical about the y -axis?

- A $y = x^2 + 3x - 1$
- B $y = -x^2 + x$
- C $y = 6x^2 + 9$
- D $y = 3x^2 - 3x + 1$

Friday

The speed a tsunami, or tidal wave, can travel is modeled by the equation $s = 356\sqrt{d}$, where s is the speed in kilometers per hour and d is the average depth of the water in kilometers. A tsunami is found to be traveling at 145 kilometers per hour. What is the average depth of the water? Round to the nearest hundredth.