

Monday

LANDSCAPING Rob is helping his dad install a fence. He is using a sledgehammer to drive the pointed fence posts into the ground. On his first swing, he drives a post five inches into the ground. Since the soil is denser the deeper he drives, on each swing after the first, he can only drive the post 30% as far into the ground as he did on the previous swing. How far has he driven the post into the ground after five swings?

Tuesday

$$2^{2x} = \frac{1}{8}$$

Wednesday

Find all the zeros of the polynomial:

$$g(x) = 12x^4 + 4x^3 - 3x^2 - x$$

Thursday

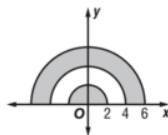
The figure at the right is made of three concentric semicircles. What is the total area of the shaded regions?

(A) 4π units²

(B) 10π units²

(C) 12π units²

(D) 20π units²



Friday

PHYSICS A vacuum pump removes 20% of the air from a container with each stroke of its piston. What percent of the original air remains after five strokes of the piston? (*Lesson 11-3*)