

Monday

Simplify: $3(4 - 5i)(2 + i)$

Explain your method for finding the answer.

Tuesday

BUILDINGS To calculate the height of a building, Joel walked 200 feet from the base of the building and used an inclinometer to measure the angle from his eye to the top of the building. If his eye level is at 6 feet, how tall is the building?

Wednesday

GOLF A golfer is standing at the tee, looking up to the green on a hill. If the tee is 36 yards lower than the green and the angle of elevation from the tee to the hole is 12° , find the distance from the tee to the hole.

Thursday

Explain the conversion method from degrees to radians and vice versa. Then convert the following:

$$325^\circ$$

$$\frac{5\pi}{9}$$

Friday

$$f(x) = \begin{cases} -x^2 - 4x + 1 & \text{for } x > 5 \\ 3x - 7 & \text{for } -2 < x \leq 5 \\ \frac{1}{2}x^2 & \text{for } x \leq -2 \end{cases}$$

Evaluate for $3f(-1) - f(-4) + 2f(5)$