BECA / Dr. Huson / IB Mathematics First & last name:
8 January 2020

1.1 Do Now: Function notation practice. Write answers clearly in the box.

1. The function f is defined by $f(x) = 7x - 4$:
   a) Find the values of $f\left(\frac{1}{2}\right)$ and f(-5).
   b) Find the values of x such that $f(x) = 10$.
   c) Find the values of x such that $f(x) = x$.
   d) Find the values of x such that $f(x) = f(37)$.

Total marks = 6

Mastery topic: Algebraic solution

Solve each equation for x, rounding to the nearest hundredth.

10. $\tan 75^\circ = \dfrac{x}{15}$

11. $\tan 26^\circ = \dfrac{4}{x}$

12. $\sin 46^\circ = \dfrac{x}{3.5}$

13. $\cos 35^\circ = \dfrac{x}{10}$

Solve for x, rounding to the nearest whole degree.

14. $x = \tan^{-1}(\dfrac{2}{3.5})$

15. $\tan x^\circ = \dfrac{17}{9}$