

IM2 Book 3 Selected Answers

Mr. Spence

April 2025

1. $10\sqrt{2}$
2. (a) $A = \left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$, $B = \left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$
(b) $\cos()$
(c) $\sin()$
3. (a) $\cos(40^\circ)$
(b) $\sin(40^\circ)$
4. (a) $m_{OA} = 1$, $m_{OB} = \frac{\sqrt{3}}{3}$
(b) $\tan()$
5. 470 ft