

7.7 a) $\alpha = \frac{\pi}{3} \Rightarrow x = \frac{\pi}{3} \cdot \frac{1200}{180} = 1200$
 b) $\alpha = \frac{\pi}{2} \Rightarrow x = \frac{\pi}{2} \cdot \frac{1200}{180} = 1200$
 c) $\alpha = \frac{2\pi}{3} \Rightarrow x = \frac{2\pi}{3} \cdot \frac{1200}{180} = 1200$
 d) $\alpha = \frac{3\pi}{4} \Rightarrow x = \frac{3\pi}{4} \cdot \frac{1200}{180} = 1200$
 e) $\alpha = \frac{5\pi}{6} \Rightarrow x = \frac{5\pi}{6} \cdot \frac{1200}{180} = 1200$
 f) $\alpha = \frac{7\pi}{6} \Rightarrow x = \frac{7\pi}{6} \cdot \frac{1200}{180} = 1200$
 g) $\alpha = \frac{5\pi}{3} \Rightarrow x = \frac{5\pi}{3} \cdot \frac{1200}{180} = 1200$
 h) $\alpha = \frac{4\pi}{3} \Rightarrow x = \frac{4\pi}{3} \cdot \frac{1200}{180} = 1200$
 i) $\alpha = \frac{3\pi}{2} \Rightarrow x = \frac{3\pi}{2} \cdot \frac{1200}{180} = 1200$
 j) $\alpha = \frac{5\pi}{4} \Rightarrow x = \frac{5\pi}{4} \cdot \frac{1200}{180} = 1200$
 k) $\alpha = \frac{3\pi}{4} \Rightarrow x = \frac{3\pi}{4} \cdot \frac{1200}{180} = 1200$
 l) $\alpha = \frac{\pi}{2} \Rightarrow x = \frac{\pi}{2} \cdot \frac{1200}{180} = 1200$
 m) $\alpha = \frac{\pi}{3} \Rightarrow x = \frac{\pi}{3} \cdot \frac{1200}{180} = 1200$

7.8 a) triangle rectangle: $3 \cdot x = 180 \Rightarrow x = 60 \Rightarrow \frac{3}{13} \Rightarrow \left(\frac{3 \cdot \text{côté} \cdot 2 \cdot 180}{180} = 1200 \right)$
 b) carré: $3 = 90 \Rightarrow \frac{2}{11} \Rightarrow \left(\frac{4 \cdot \text{côté} \cdot 2 \cdot 180}{180} = 360 \Rightarrow \text{somme des angles} \right)$
 c) pentagone: 5 côtés et $(5-2) \cdot 180 = 540 = 540 \Rightarrow \text{somme des angles}$
 d) hexagone: 6 côtés $\Rightarrow (6-2) \cdot 180 = 720 = 720$
 e) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 f) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 g) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 h) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 i) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 j) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 k) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 l) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 m) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 n) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 o) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 p) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 q) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 r) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 s) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 t) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 u) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 v) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 w) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 x) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 y) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$
 z) n-gone: n côtés $\Rightarrow (n-2) \cdot 180$

7.9 $R = 12 \text{ mm}$
 a) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 b) 14.5 minutes $\Rightarrow K = \frac{60}{14.5 \cdot 360} = 30^\circ$
 c) $43 + \frac{60}{14.5} = 43 + 4.14 = 47.14^\circ$
 d) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 e) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 f) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 g) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 h) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 i) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 j) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 k) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 l) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 m) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 n) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 o) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 p) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 q) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 r) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 s) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 t) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 u) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 v) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 w) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 x) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 y) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$
 z) 5 minutes $\Rightarrow K = \frac{60}{5 \cdot 360} = 30^\circ$

7.10 48 km/h $\equiv \frac{48 \cdot 1000 \text{ m}}{3600 \text{ s}} = 13.33 \text{ m/s}$
 13.33 m/s $\equiv 2.91 \text{ km/h}$
 7.11 Circulaire: $2\pi R = 2\pi \cdot 0.4 = 2.51 \text{ m}$
 2.51 m $\equiv 2.51 \text{ m}$
 7.12 Circulaire: $\pi \cdot d = \pi \cdot 0.85 \text{ m} = 2.67 \text{ m}$
 2.67 m $\equiv 2.67 \text{ m}$
 90 bus $\equiv 80 \cdot 2.67 \text{ m} = 213 \text{ m}$
 213 m $\equiv 213 \text{ m}$
 la vitesse est donc de $\frac{60 \cdot 213}{1000} = 12.78 \text{ km/h}$