1. $m\_{1}=\frac{1}{5}$

$$m\_{2}=-5$$

Midpoint $\left(\frac{5}{2},\frac{7}{2}\right)$

Equation: $y+5x-16=0$

1. a) $h\left(x\right)=\frac{1}{\left(x+3\right)\left(x-1\right)} $ or $\frac{1}{x^{2}+2x-3}$

b) $x:x\in R, x\ne -3, x\ne 1$

1. $u\_{0}=5$, $u\_{1}=9$, $u\_{2}=9.8$

$-1<0.2<1$ so a limit exists

$$L=10$$

1. $A^{'}\left(0, -1\right)$ $B^{'}\left(-2, 1\right)$
2. $15°, 75°, 195°, 255°$
3. 8