21. 



$$
\begin{array}{r}
(1) \frac{x}{5}=9(5) \\
x=45
\end{array}
$$

c)

$$
\begin{aligned}
& \frac{3.6}{r}=\frac{6}{1} \\
& \frac{3.6}{6}=r
\end{aligned}
$$

a) $36 \quad$ b) 20
a) 0.3
b) $\frac{1}{3}$
$=0.3$
$\begin{aligned} 10 & =\frac{3}{\Delta V} \\ v & =\frac{3}{10}\end{aligned}$

$$
5.9^{2}=2.5^{2}+h^{2}
$$

$$
\frac{3}{x} x 6
$$

(2)

$$
\frac{x 3}{x}=6 x
$$

$$
\frac{3}{6}=\frac{6 x}{6}
$$

$$
\frac{1}{2}=x
$$

c) 6 d) 9.9
$12=\frac{m}{3}$
c) 0.6
d) 30
$12(3)=m$

$$
36=m
$$

ex. Find the length of $\overline{\mathrm{BC}}$ to the nearest tenth of a unit.

$$
\begin{aligned}
\tan \angle 28^{\circ} & =\frac{0 p p}{23} \\
23 \tan 28^{\circ} & =0 \mathrm{pp} \\
12.2 & =\text { opp } \\
\therefore \overline{B C} & =12.2
\end{aligned}
$$


ex. Find the length of $\overline{\mathrm{PQ}}$ to the nearest tenth of a unit.

$$
\begin{aligned}
\tan 35^{\circ} & =\frac{5}{P Q} \\
P Q & =\frac{5}{\tan 35^{\circ}} \\
P Q & =7.1 \mathrm{~cm}
\end{aligned}
$$


ex. A rope supports a vertical tent pole. The rope forms a $33^{\circ}$ with the ground. Rope is staked into the ground 10 m from the base of the tent pole. Find height $B C$ to the nearest tenth of a meter.

$$
\begin{aligned}
\tan \angle A & =\frac{a p p}{a \operatorname{ag}} \\
\tan 33^{\circ} & =\frac{B C}{10} \\
10 \tan 33 & =B C \\
\overline{B C} & =6.5 \mathrm{~m}
\end{aligned}
$$


: length BC io
about 6.5 m

Pg. 82 \#4, 6, 8, 9, 10, 12, 15, 16

### 2.3 Measuring Heights indirectly

*A clinometer is a tool that measures angles of elevation and angles of depression

ex. Find the height of the tree (or any other object)


Pg. 86 \#1-3 \& pg. 88 \#1-5

