

**Solution Manual for Basic Technical Mathematics with Calculus 10th Edition by
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Chapter 2

GEOMETRY

2.1 Lines and Angles

1. $\angle ABE = 90^\circ$

2. $\angle QOR = 90^\circ - 32^\circ = 58^\circ$

3. 4; $\angle BOC$ and $\angle COA$,
 $\angle COA$ and $\angle AOD$,

$\angle AOD$ and
 $\angle DOB$,

and, $\angle DOB$ and $\angle BOC$.

4. (a) $\frac{7.75 - x}{5.65 - 6.50} = \frac{x}{7.75(6.50)}$

$x = \frac{5.65}{8.92}$
 $x = 8.92$
ft

15. $\angle BOD = 180^\circ - 90^\circ - 50^\circ = 40^\circ$

16. $\angle 3 = 180^\circ - 35^\circ = 145^\circ$

17. $\angle 1 = 180^\circ - 145^\circ = 35^\circ = \angle 2 = \angle 4$

18. $\angle 5 = \angle 3 = 145^\circ$ 19. $\angle 1 = 62^\circ$

20. $\angle 2 + \angle 1 = 180^\circ \Rightarrow \angle 2 = 180^\circ - \angle 1$
 $= 180 - 62 = 118$

21. $\angle 3 = 90^\circ - 62^\circ = 28^\circ$

22. $\angle 3 + \angle 4 = 180^\circ$

$\angle 1 + \angle 3 = 90^\circ$

$\angle 3 = 90 - 62$
(
b
)
M
o

$\angle 4 = 180$
re
vertical

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