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| Wednesday, Mar. 30 |  |
| Back of Assignment Sheet \#1-4 |  |
| Sec. 7.2 pp. 298-299 |  |
| $13 \mathrm{~B}, 15 \mathrm{~A}, 23 \mathrm{~A}, 25 \mathrm{~B}, 27$ c |  |
| Sec. 7.3 pp. 306-309 |  |
| $9 \mathrm{~B}, 15 \mathrm{C}, 21 \mathrm{~A}, 23 \mathrm{C}, 28,34,49,50$ |  |
| Friday, Apr. 1 |  |
| Vector Operations Handout \#1-8 |  |
| Start Airplane Navigation Project |  |
| Wednesday, Apr. 6 | Friday, Apr. 8 |
| Vector Operations Handout \#9-10 | Parametric Equations Handout |
| $\begin{array}{r} \text { Sec. } 7.5 \text { pp. } 322-323 \\ 13,14,17,18,19 \end{array}$ |  |
| Tuesday, Apr. 12 | Thursday, Apr. 14 |
| Review Ch. 7 <br> Journal Due | Solving Oblique Triangles |
| Work on Project |  |
| Applications of Trig Video- 5 pts. Extra Credit to watch (\& answer questions) on select seminars/before/after school | Q Vectors est |
| Wednesday, Apr. 20 | Tuesday, Apr. 26$\begin{gathered} \text { TRUGONOMETRY } \\ \text { FUNAL } \end{gathered}$ |
| Semester Review <br> Navigation Project Due |  |
| Friday, Apr. 22 |  |
| Semester Review |  |

1. Given $B=20^{\circ} 50, C=103^{\circ} 10^{\prime}, b=132 \mathrm{ft}$, find c .
2. Given $A=39.70^{\circ}, C=30.35^{\circ}, b=39.74 \mathrm{~m}$, find a.
3. A hot air balloonist is directly above a straight road 1.5 miles long that joins two villages. She finds that the town closer to her is at an angle of depression of $35^{\circ}$, and the farther town is at an angle of depression of $31^{\circ}$. How high above the ground is the balloon?
4. Debbie Maybury, a whale researcher standing at the top of a tower, is watching a whale approach the tower directly. When she first begins watching the whale, the angle of depression to the whale is $15^{\circ} 50^{\prime}$. After the whale swims 175 meters closer, she notes the angle of depression is $35^{\circ} 40^{\prime}$. Find the height of the tower to the nearest meter.

## Answers:

1. 361 ft
2. 27.01 m
3. 0.49 mi
4. 82.2 m

Sec. 7.2 pp. 298-299
13. $B=49.1^{\circ}$ or $130.9^{\circ}$
15. $A=112^{\circ} 10^{\prime}$
23. No triangle
25. $B=49^{\circ} 20^{\prime}$ or $130^{\circ} 40^{\prime}$
27. $c=37.16 \mathrm{~m}$ or 8.719 m

Sec. 7.3 pp. 306-309
9. $B=81.3^{\circ}$
15. $C=45.6^{\circ}$
21. $A=42.0^{\circ}$
23. $C=87.4^{\circ}$
28. 745 mi
34. $\approx 47.5 \mathrm{ft}$.

Sec. 7.5 pp. 322-323
13. $173.1^{\circ}$
14. $\mathrm{a}=156 \mathrm{mph}, \mathrm{g}=161 \mathrm{mph}$
17. $470 \mathrm{mph} @ 237^{\circ}$
18. heading $=65^{\circ} 30^{\prime} ; g=181 \mathrm{mph}$
19. $170 \mathrm{mph} @ 358^{\circ}$

