Geometry Ch. 7 HW #2: p. 372: 3-20,23,26,29,31-34, 39,40

3. $x = 9, y = 15$

4. $m = 5, n = 12$

5. $d = 126, z = 28$

6. $g = 61, h = 9$

7. 129°

8. 85°

9. **13**

10. **7**

11. **8**

12. **16.4**

13. **80°**

14. **80°**

15. **100°**

16. **29°**

17. $m = 35, n = 110$

18. $b = 90, c = 80, d = 100$

19. $k = 7, m = 8$

20. $u = 4, v = 18$

26. (0, 0.5)

29. $G(2, 0)$

31. 36°, 144°

32. 26°, 154°

33. no;

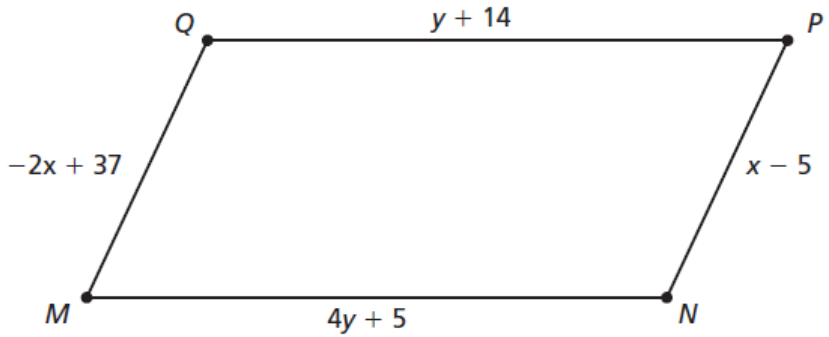
34. 76°, 104°

40. 8

23.

STATEMENTS	REASONS
1. $ABCD$ and $CEFD$ are parallelograms.	1. Given
2. $\overline{AB} \cong \overline{DC}, \overline{DC} \cong \overline{FE}$	2. Parallelogram Opposite Sides Theorem (Thm. 7.3)
3. $\overline{AB} \cong \overline{FE}$	3. Transitive Property of Congruence (Thm. 2.1

39.



52 units