



Intermediate Math Circles
February 05, 2014
Contest Preparation I
Answers to Problem Sets 1,2 and 3

Answers to Problem Set 1:

- | | | | | | | | |
|----|---|-----|---|-----|---|-----|---|
| 1. | D | 2. | A | 3. | D | 4. | B |
| 5. | D | 6. | D | 7. | E | 8. | D |
| 9. | E | 10. | B | 11. | E | 12. | D |

Answers to Problem Set 2:

- | | | | | | | | |
|-----|---|-----|---|-----|---|-----|---|
| 1. | B | 2. | E | 3. | B | 4. | E |
| 5. | D | 6. | E | 7. | D | 8. | E |
| 9. | D | 10. | D | 11. | A | 12. | C |
| 13. | C | 14. | E | 15. | A | | |

Answers to Problem Set 3:

- | | | | | | | | |
|----|----|-----|---|----|-------------|----|-----------------|
| 1. | C | 2. | B | 3. | 110° | 4. | $8 + 8\sqrt{3}$ |
| 5. | 21 | 6. | 7 | 7. | E | 8. | B |
| 9. | D | 10. | E | | | | |