Siatki ostrosłupów. Pole powierzchni – odpowiedzi

GRUPA A

1. B

2. B

3. C

4. C

5. C

6. a) $64\sqrt{3} + 360$, b) $36 + 12\sqrt{91}$, c) $24\sqrt{3} + 12\sqrt{77}$

7. B

8. T, N, T

9. D

10. $P_c = (64 + 32\sqrt{21})\,\text{cm}^2$

11. $36\,\text{cm}^2$

12. $(54\sqrt{3} + 36\sqrt{70})\,\text{cm}^2$

13. $25\sqrt{3} + 15\sqrt{11}$

14. B

GRUPA B

1. A

2. B

3. A

4. A

5. D

6. a) $24\sqrt{3} + 48\sqrt{2}$, b) $40\sqrt{14} + 100$, c) $81\sqrt{3} + 1080$

7. D

8. N, T, T

9. A

10. $P_c = (100 + 20\sqrt{119})\,\text{cm}^2$

11. $25\,\text{cm}^2$

12. $(96\sqrt{3} + 72\sqrt{17})\,\text{cm}^2$

13. $16\sqrt{3} + 24\sqrt{5}$

14. C

GRUPA C

1. B

2. A

3. D

4. D

5. A

6. a) $128\sqrt{21}+256$, b) $24\sqrt{3}+12\sqrt{77}$, c) $225\sqrt{3}+900$

7. A

8. T, T, T

9. B

10. $P_c = (16+16\sqrt{15})\,\text{cm}^2$

11. $64\,\text{cm}^2$

12. $(96\sqrt{3}+192\sqrt{2})\,\text{cm}^2$

13. $4\sqrt{3}+24\sqrt{2}$

14. B

GRUPA D

1. C

2. D

3. A

4. B

5. B

6. a) $64\sqrt{3}+360$, b) $40\sqrt{14}+100$, c) $24\sqrt{3}+24\sqrt{15}$

7. D

8. T, T, N

9. A

10. $P_c = (64+128\sqrt{2})\,\text{cm}^2$

11. $36\,\text{cm}^2$

12. $(90\sqrt{19}+150\sqrt{3})\,\text{cm}^2$

13. $27\sqrt{15}+9\sqrt{3}$

14. B

GRUPA E

1. B

2. B

3. C

4. A

5. B

6. a) $225\sqrt{3}+900$, b) $24\sqrt{3}+24\sqrt{15}$, c) $80\sqrt{6}+100$

7. B

8. T, T, N

9. B

10. $P_c = (36+72\sqrt{2})\,\text{cm}^2$

11. $81\,\text{cm}^2$

12. $(192\sqrt{21} + 384\sqrt{3})\,\text{cm}^2$

13. $121\sqrt{3} + 66\sqrt{26}$

14. B

GRUPA F

1. B

2. A

3. A

4. B

5. D

6. a) $24\sqrt{3} + 12\sqrt{21}$, b) $81\sqrt{3} + 1080$, c) $80\sqrt{6} + 100$

7. C

8. T, T, T

9. C

10. $P_c = (16 + 32\sqrt{6})\,\text{cm}^2$

11. $16\,\text{cm}^2$

12. $(54\sqrt{3} + 54\sqrt{15})\,\text{cm}^2$

13. $9\sqrt{3} + 9\sqrt{55}$

14. D

GRUPA G

1. A

2. D

3. D

4. C

5. C

6. a) $36 + 12\sqrt{91}$, b) $49\sqrt{3} + 504$, c) $24\sqrt{3} + 48\sqrt{2}$

7. C

8. N, T, T

9. B

10. $P_c = (64 + 16\sqrt{105})\,\text{cm}^2$

11. $25\,\text{cm}^2$

12. $(150\sqrt{3} + 300\sqrt{2})\,\text{cm}^2$

13. $9\sqrt{3} + 36\sqrt{7}$

14. D

GRUPA H

1. D

2. C

3. C

4. C

5. B

6. a) $128\sqrt{21} + 256$, b) $24\sqrt{3} + 12\sqrt{21}$, c) $4\sqrt{3} + 24\sqrt{2}$

7. A

8. N, T, T

9. C

10. $P_c = (36 + 12\sqrt{91})\,\text{cm}^2$

11. $16\,\text{cm}^2$

12. $(150\sqrt{3} + 300\sqrt{2})\,\text{cm}^2$

13. $9\sqrt{3} + 9\sqrt{7}$

14. A

GRUPA I

1. B

2. D

3. C

4. A

5. B

6. a) $24\sqrt{3} + 12\sqrt{21}$, b) $81\sqrt{3} + 1080$, c) $80\sqrt{6} + 100$

7. B

8. T, T, T

9. C

10. $P_c = (36 + 24\sqrt{10})\,\text{cm}^2$

11. $49\,\text{cm}^2$

12. $(150\sqrt{3} + 300\sqrt{2})\,\text{cm}^2$

13. $4\sqrt{3} + 18\sqrt{5}$

14. C

GRUPA J

1. B

2. C

3. D

4. B

5. C

6. a) $225\sqrt{3} + 900$, b) $24\sqrt{3} + 24\sqrt{15}$, c) $80\sqrt{6} + 100$

7. A

8. T, N, T

9. A

10. $P_c = (64 + 16\sqrt{65})\,\text{cm}^2$

11. $49\,\text{cm}^2$

12. $(54\sqrt{3} + 54\sqrt{15})\,\text{cm}^2$

13. $16\sqrt{3} + 36\sqrt{17}$

14. D