

DAY 1

- (1) 25      (2) 13      (3)  $\frac{1}{6}$       (4)  $\frac{1}{10}$       (5) 25      (6) 1      (7)  $4\sqrt{3}$   
 (8) 64      (9) 6.14      (10)  $\frac{29}{15}$       (11) 351      (12) 18      (13)  $\frac{43}{30}$       (14)  $11\sqrt{3}$   
 (15) 82      (16)  $\frac{17}{90}$       (17)  $385\sqrt{3}$       (18) 21.58      (19) 525600      (20) 20

DAY 2

- (1) 81      (2)  $\frac{3}{2}$       (3)  $-3\sqrt{3}$       (4)  $\frac{31}{6}$       (5)  $\frac{3-11\sqrt{2}}{4}$       (6) -0.1111      (7) -28  
 (8) 0.81      (9)  $28-10\sqrt{3}$       (10)  $-\frac{171}{35}$       (11) 33      (12)  $\frac{6\sqrt{5}-\sqrt{2}}{15}$       (13)  $\frac{20}{3}$       (14) 81  
 (15)  $\frac{391}{195}$       (16)  $2\sqrt{7}-\sqrt{2}$       (17) 6      (18) 119      (19) 818181      (20) 192

DAY 3

- (1) 0.47      (2) 16.33      (3) 1.536      (4) -30      (5)  $2\sqrt{2}$       (6)  $-7\sqrt{2}$       (7) -18  
 (8)  $-\sqrt{15}$       (9)  $\frac{9}{20}$       (10)  $\frac{13}{9}$       (11)  $-\frac{6}{7}$       (12)  $-\frac{27}{32}$       (13) -9.12      (14) 5.966  
 (15)  $-\sqrt{3}$       (16)  $5\sqrt{2}$       (17)  $-\frac{19}{36}$       (18)  $-\frac{5}{6}$       (19) -0.48      (20) -4.5

DAY 4

- (1) 81      (2)  $\frac{31}{12}$       (3) 134      (4)  $\frac{3}{40}$       (5) 93      (6)  $\frac{9}{4}\sqrt{2}$       (7)  $4\sqrt{2}$       (8) 1  
 (9)  $-\frac{69}{20}$       (10) -89      (11) 5.68      (12)  $\frac{41}{12}$       (13)  $\frac{11}{10}\sqrt{3}$       (14) -15      (15) 4.22  
 (16)  $\frac{51}{5}$       (17)  $x=\pm 2\sqrt{3}$       (18)  $x=-3\pm 2\sqrt{6}$       (19)  $x=7, -1$       (20)  $x=-\frac{3}{4}, -\frac{13}{4}$

DAY 5

- (1) 29      (2) 1.6      (3)  $\frac{19}{12}$       (4)  $\frac{3}{2}$       (5)  $4\sqrt{2}$       (6)  $6x^2+7x-5$       (7)  $x^2-8x+16$   
 (8) 6      (9) 4      (10)  $6\sqrt{2}$       (11)  $x=8$       (12)  $x=5$       (13)  $x=4$       (14)  $x=8$       (15)  $x=6$   
 (16)  $x=5$       (17)  $x=3$       (18)  $x=5$       (19)  $x=8$       (20)  $x=1$

DAY 6

- (1) 12 (2) -40 (3) -27 (4)  $\frac{4}{9}$  (5) -20 (6) -6 (7)  $-4a+9$  (8)  $\frac{5x-11}{6}$   
 (9)  $-4ab$  (10)  $\frac{31}{10}$  (11)  $\frac{5}{4}$  (12)  $\frac{5}{6}$  (13)  $\frac{3}{4}$  (14)  $x=6$  (15)  $x=\frac{3}{2}$  (16)  $x=-12$   
 (17)  $x=10$  (18)  $x=2$  (19)  $x=9$  (20)  $x=3, y=-1$

DAY 7

- (1) -41 (2) -43 (3)  $-56x^5y^3$  (4)  $7a+5b$  (5) 240 (6) 15 (7)  $7\sqrt{3}$  (8) 1  
 (9)  $4\sqrt{2}$  (10)  $-8ab^3$  (11) 7 (12)  $-\frac{19}{12}$  (13) ??? (14) 9.6 (15) 400  
 (16) 11025 (17) -3 (18) -8 (19)  $\frac{7}{6}x$  (20)  $\frac{1}{8}a^7b^4c^5$

DAY 8

- (1) 180 (2)  $\frac{65}{12}$  (3)  $\frac{7}{32}\sqrt{21}$  (4)  $-\frac{22}{21}$  (5) -354 (6)  $3\sqrt{3}$  (7)  $\frac{128}{9}$   
 (8)  $\frac{5}{3}$  (9)  $-\frac{5}{12}$  (10) -34 (11) 6.771 (12)  $\frac{261}{35}$  (13)  $\frac{17}{14}\sqrt{3}$  (14) -28  
 (15)  $\frac{166}{5}$  (16) 18.98 (17)  $-\frac{47}{2}$  (18) 8.35 (19)  $-\frac{15}{2}$  (20)  $\frac{32}{9}$

DAY 9

- (1) 48 (2) 27 (3)  $\frac{2}{35}$  (4)  $9\sqrt{3}$  (5) 144 (6)  $\frac{11}{16}$  (7) 281 (8) 323 (9)  $\frac{4}{25}$   
 (10) 10242 (11) 1826 (12) 5600 (13) -19 (14) -2.98 (15)  $\frac{12}{7}$  (16) -144 (17)  $7\sqrt{3}$   
 (18)  $\frac{1}{12}$  (19) 9879 (20) 30

DAY 10

- (1) 0 (2) 3 (3) -1.7 (4)  $-\frac{19}{60}$  (5) -1251 (6) 3.645 (7) 15 (8)  $5\sqrt{2}+6$  (9)  $-\frac{9}{2}$  (10)  $\frac{47}{12}\sqrt{3}$   
 (11) 50 (12) 4.43 (13)  $19+4\sqrt{21}$  (14)  $\frac{-2-10\sqrt{3}}{3}$  (15) 9599 (16)  $\frac{5}{3}$   
 (17)  $x=-11$  (18)  $x=\frac{4}{5}$  (19)  $x=\frac{1}{3}$  (20)  $x=-5$

DAY 11

- (1) -12.2 (2) -18.2 (3) -1.8 (4) 16 (5)  $\sqrt{2}$  (6)  $\sqrt{2}$  (7) -12 (8)  $-3\sqrt{3}$   
 (9)  $\frac{11}{20}$  (10)  $\frac{17}{18}$  (11)  $\frac{\sqrt{2}}{2}$  (12)  $\sqrt{5}$  (13)  $\frac{7\sqrt{3}}{6}$  (14)  $-\frac{2\sqrt{7}}{7}$  (15) 5 (16) 3  
 (17)  $\pi-3$  (18)  $2^3 \times 3 \times 5^2$  (19) 15 (20)  $16\pi$

DAY 1 2

- (1) 10.58 (2)  $\frac{92}{21}$  (3) 15 (4)  $\frac{85}{168}$  (5) 6.42 (6)  $\frac{3}{2}\sqrt{5}$  (7)  $-\frac{\sqrt{3}}{12}$  (8) 2 (9) 5.25 (10)  $\frac{31}{6}\sqrt{3}$   
 (11)  $\frac{177}{5}\sqrt{5}$  (12) -0.62 (13)  $\frac{29}{105}\sqrt{3}$  (14) 68.38 (15)  $-\frac{161}{9}$  (16) -7.54 (17)  $x=5$  (18)  $x=4$   
 (19)  $x=-10$  (20)  $x=13$

DAY 1 3

- (1) -1 (2) 11.5 (3)  $\frac{7}{24}$  (4)  $\frac{2}{3}$  (5)  $12\sqrt{3}$  (6)  $2x^2+5x-12$  (7)  $x^2+10x+25$   
 (8) 16 (9) 0.3 (10)  $4\sqrt{2}$  (11)  $x=7$  (12)  $x=7$  (13)  $x=3$  (14)  $x=4$   
 (15)  $x=20$  (16)  $x=5$  (17)  $x=4$  (18)  $x=5$  (19)  $x=6$  (20)  $x=3$

DAY 1 4

- (1) -14 (2) 11 (3) -35 (4) 64 (5) 240 (6)  $\frac{3}{2}$  (7)  $\frac{1}{12}$  (8) 9 (9) -6 (10) 15  
 (11)  $x=3$  (12)  $x=-1$  (13)  $x=-4$  (14)  $x=\frac{18}{7}$  (15)  $x=1, y=3$  (16)  $x=2, y=1$   
 (17)  $x=8, y=-2$  (18)  $x=6, y=3$  (19)  $\pm 7$  (20) 5

DAY 1 5

- (1) 81 (2)  $\frac{23}{24}$  (3) -2 (4) 9 (5) -2 (6) -14 (7)  $2\sqrt{2}$  (8)  $-4a+9$   
 (9)  $-4ab$  (10)  $\frac{5x-11}{6}$  (11)  $-16a^2b$  (12) -20 (13)  $\frac{2}{9}a$  (14) -3  
 (15)  $1+16\sqrt{3}$  (16)  $\sqrt{3}$  (17) 1591 (18) -6.26 (19)  $-\frac{5\sqrt{6}}{12}$  (20)  $-4\sqrt{3}$

DAY 1 6

- (1) 8.781 (2)  $\frac{83}{24}$  (3)  $\frac{7}{2}\sqrt{2}$  (or  $\frac{7}{\sqrt{2}}$ ) (4)  $\frac{287}{216}$  (5) 9.18 (6)  $\frac{-7}{5\sqrt{3}}$  (7)  $-\frac{46}{7}$  (8)  $\frac{79}{90}$   
 (9)  $\frac{13}{24}$  (10) 8.736 (11) 6.771 (12)  $\frac{113}{12}$  (13)  $\frac{11}{2}\sqrt{2}$  (14)  $\frac{146}{3}\sqrt{3}+63$   
 (15)  $\frac{55}{12}\sqrt{2}$  (16) -4.718 (17)  $-\frac{89}{30}$  (18) -66.655 (19)  $10\sqrt{7}$  (20)  $\frac{5}{8}\sqrt{3}$