9/22/20

Pg 332-333

Start 3:35-3:49

1 $2 \cdot 3$

2 $2 \cdot 7$

3 $2 \cdot 2 \cdot 3 \cdot 3$

4 $2 \cdot 3 \cdot 3 \cdot 3$

5 $2 \cdot 5 \cdot 7$

6 Gcf=3 LCM=18

7 Gcf=15 LCM=225

8 Gcf=25 LCM=250

9 (C) $(15 \cdot 2) + (15 \cdot 5) = 30 + 75$

10 (A) $\frac{11}{75} - \frac{2}{75} = \frac{11 \cdot 3}{75 \cdot 3} - \frac{2 \cdot 5}{45 \cdot 5} = \frac{33}{225} - \frac{10}{225} = \frac{23}{225}$

9/22/20 pg 344–345

Start 3:50 – 4:48

1 $30x^2$ $6 \cdot 5 = 30$ $x \cdot x = x^2 = 30x^2$

2 $6xy^2$ $2 \cdot 3 = 6$ $xy \cdot y = xy^2$

3 $28ab^2c^2$ $4 \cdot 7 = 28$ $abc \cdot bc = b^2c^2 = 28ab^2c^2$

4 $12yz$ $12y \cdot z = 12yz$

5 $9abc$ $a \cdot 9bc = 9abc$

6 $10x^2y^3z^5$ $2 \cdot 5 = 10$ $xyz \cdot xy^2z^4 = x^2y^3z^5 = 10x^2y^3z^5$

7 $4ab^2c^2 = 1 \cdot 4(ab \cdot bc^2)$

8 $34f^3gh^7 = 2 \cdot 17(f^2gh^2 \cdot fh^4)$

9 $18xyz^2 + 12z^3$ $3 \cdot 6 = 18$ $3 \cdot 4 = 12$ $z^2 \cdot xy = xyz^2$ $z^2 \cdot z = z^3$

10 $42x^2 - 36xz$ $6 \cdot 7 = 42$ $6 \cdot 6 = 36$ $x \cdot x = x^2$ $x \cdot z = xz$

11 $-15ab^2 - 55abc$ $-5 \cdot 3 = -15$ $-5 \cdot 11 = 55$ $ab \cdot b = ab^2$ $ab \cdot c = abc$

12 $-18f^3h + 24f^4gh^2$ $3 \cdot 6 = 18$ $3 \cdot 8 = 24$ $f^3 \cdot h = f^3h$ $f^3 \cdot fgh^2 = f^4gh^2$

13 $70x^7z - 50z^2$ $10 \cdot 7 = 70$ $10 \cdot 5 = 50$ $z \cdot x^7 = x^7z$ $z \cdot z = z^2$

14 $z^2 + 6xyz$ $-1 \cdot -1 = 1$ $-1 \cdot -6 = 6$ $z \cdot z = z^2$ $z \cdot xy = xyz$

15 $72ab^2 + 64ab$ $8 \cdot 9 = 72$ $8 \cdot 8 = 64$ $b \cdot ab = ab^2$ $b \cdot a = ab$

16 $18x^4 - 27xy^2$ $-9 \cdot -2 = 18$ $-9 \cdot 3 = -27$ add variables

17 $x^2 - x - 30 = (x+5)(x-6)$ $x^2 - 6x + 5x - 30$

18 $x^2 + 2xy + y^2 = (x+y)(x+y)$ $x^2 + xy + xy + y^2$

19 $z^2 - 81 = (z+9)(z-9) = z^2 - 9z + 9z - 81$

20 $y^2z^4 - 2xyz^2 - 3x^2 = (yz^2 + x)(yz^2 - 3x) = y^2z^4 - 3xyz^2 + 3xyz^2 - 3x^2$

21 $9x^2 + 24x + 15 = (3x+3)(3x+5) = 9x^2 + 15x + 9x + 15$

22 $x^2 - y^2 = (x+y)(x-y) = x^2 - xy + xy - y^2$

23 $y^6 - 6y^4 + 10y^2 - 60 = (y^2 - 6)(y^4 + 10) = y^6 + 10y^2 - 6y^4 - 60$

24 $a^2b^2 - ab - 12 = (ab + 3)(ab - 4) = a^2b^2 - 4ab + 3ab - 12$

25 A $(4a^3b^2)(3a^2c) = 12a^5b^2c$

26 D $(2pc^2)(6p^2c) = 12p^3c^3$

27 B $(4ab + 2)(3ab - 7) = 12a^2b^2 - 22ab - 14$

9/22/20 pg 326-327

start 1:12- 1:44

1. (18)
2. (107)
3. (423)
4. (95)
5. (7026)
6. (18)
7. (5,708,432)
8. (85.6)
9. (42)
10. (10.5)
11. (163.24)
12. (3.14)
13. (11) 5+6=11
14. (-156) 52·-3=-156
15. (156) 52·3=156
16. (3) 12÷4=3
17. (-91) -(110-201)=-91
18. (0) -14+14=0
19. (620)
20. (-7) 49÷-7=-7
21. (-20) -5·4=-20
22. (-1) 6-7=-1
23. (2.125)
24. (-11) 5.5·(-2)=-11
25. (D) -5-10=-15 so 10
26. (D) 5+6+2+3=16 so D
27. (C) 65+55=120 so C
28. (A) 25-23.5=1.5 so A

706.2
86.4
+ .2
620.0

2.125
8|17.000
16
1.0
8
20
16
40

9/22/20

pg 328-329

Start 1:47-2:02

1. $X-7$
2. $3x^2+x$
3. $8x-10$
4. $-3x-2y$
5. $\frac{16}{x}-5$
6. $-8+7x$
7. $16x+x-3y$
8. x^3+x^4
9. $x^2+\frac{4}{7}$
10. $15+\sqrt{x}-6$
11. $x-(y+13)$
12. $(x+6)^2$
13. $17-(2x+y)$
14. $x+\frac{24}{x}$
15. $2x-15$
16. $4(x-y)$
17. $5(x^2-3)$
18. $x(11-\sqrt{100})$
19. C
20. A
21. B

9/22/20 pg 330-331

Start 2:46 - 3:34

1 x^2+3x+2 $5-3=2$ so x^2+3x+2

2 $19y+13$ $17y+2y=19y$ $5+8=13$

3 $-3x+54 = 3x-6x+54$

4 $6x^3+31x^2+4$ $(2x^2)(15+x^3) = 31x^2$ $6x^3+31x^2+4$

5 $7y+14$ $4y+32+3y-18=7x+14$

6 $3x+8$ $5-(-3)=8$ $-x+4x=3x$ $3x+8$

7 $22x-12$ $16x+6x-12=22x-12$

8 $2y^2+y+9 = 5y^2-3y^2+y+5+4$

9 $-5x-17 = -3x-9-2x-8=-5x-17$

10 $4x-7 = 5x-x-4-3=4x-7$

11 $31 = 12+12+7$

12 48 $3\cdot 3^2=27$ $27+9+12=48$

13 8 $\frac{36}{2}=18$ $18-10=8$

14 21 $9+16-4=21-$

15 72 $= 32+54-14$ $32+54=86-14=72$

16 80 $= 49+15-4+20=80$

17 85 $=25+(20\cdot 3)=25+60$

18 -19 ? $6(-2)=-12$ $\frac{-27}{3}=-9$

19 9 $=4-(-8)-3=9$

20 61 $= 32+2y^2-3(x-2)^2=32+32-3=61$

21 D $3x^2+3x-9+x+10=3x^2+4x+1$

22 A $4(2^2)=16$ $-3(9)=-27$ $16-27=-11$ so A

23 A $\frac{5}{9}(68-32)=\frac{5}{9}(36)$ $\frac{5}{9}\cdot\frac{36}{1}=\frac{180}{9}=20$ so A

9/22/20

pg 346–347

Start 7:01 – 7:51 PM

1 $y+15$ $\frac{2x}{2}=x$ $\frac{28}{2}=15$

2 $x+3$ $\frac{21}{7}=3$

3 $x+5$ $\frac{4x}{4}=x$ $\frac{20}{4}=5$

4 $a+b$ $\frac{3a}{3}=a$ $\frac{3b}{3}=b$

5 x^2+2x $\frac{11x^2}{11}=x^2$ $\frac{22x}{11}=2x$

6 $2x^2+3x+1$ $\frac{26x^2}{13}=2x^2$ $\frac{39x}{13}=3x$ $\frac{13}{13}=1$

7 $x+2y$ $\frac{5x}{5}=x$ $\frac{10y}{5}=2y$

8 $3a+2b$ $\frac{21a}{7}=3a$ $\frac{14b}{7}=2b$

9 $\frac{3x}{2}+y$ $\frac{48}{32}=\frac{3x}{2}$ $\frac{32y}{32}=y$

10 $\frac{3a}{4}-\frac{5b}{4}$ $\frac{9}{12}=\frac{3a}{4}$ $\frac{15b}{12}=\frac{5b}{4}$

11 $\frac{b+4c}{3}$ $\frac{6b}{6}=b$ $\frac{24c}{6}=4c$ $\frac{18}{6}=3$ $\frac{6+4c}{3}$

12 $\frac{5a+b+3c}{2}$ $\frac{25a}{5}=5a$ $\frac{5b}{5}=2b$ $\frac{15c}{5}=3c$ $\frac{10}{5}=2$ $\frac{5a+b+3c}{2}$

13 $6x+2$ $18x^2\div 3x=6x$ $6x\div 3x=2$

14 $5x+3$ $\frac{10x^2}{2x}=5x$ $6x\div 2x=3$

15 $8y+2$ $40y^2\div 5x=8y$ $10y\div 5y=2$

16 $6y+7$ $42xy\div 7x=6y$ $49x\div 7x=7$

17 $2y+2$ $38xy\div 19x=2y$ $38x\div 19x=2$

18 3 $\frac{3x+10}{x+4}=3$ $\frac{3x}{x}=3$ $\frac{18}{6}=3$

19 $x-6$ $\frac{x(x+4)}{x+4}-\frac{6(x+4)}{x+4}$ $x-6$

20 $y+7$ $\frac{y(y+3)}{y+3}+\frac{7(y+3)}{y+3}$ $y+7$ 1:20

21 $z-5$ $\frac{z(z+2)}{z+2}-\frac{5(z+2)}{z+2}$ $z-5$

22 $2x+6$ $\frac{22x^2}{11x}=2x$ $\frac{66x}{11x}=6$

23 $x-6$ $\frac{x(y-2)}{y-2}-\frac{6(y-2)}{y-2}=x-6$

24 $a+3=\frac{a(b+3)}{b+3}+\frac{3(b+3)}{b+3}=a+3$

25 C

26 D $\frac{27x+51y+60z}{3}=9x+17y+20z$ or D

27 A $\frac{22^2-10z}{2z}=z-5$

28 B guessed this one