

Teach Me How To Factor (WSHS Math Rap Song) Practice Problems

Problems are aligned with the video found at <http://mathfour.com/wshs-mathrap-factor>. Each problem set notes the time in the video of the example that corresponds to that problem set.

Factor these into three pieces. (time: 0:18 – 0:56)

1. $-75x + 3x^3$
2. $-72x + 8x^3$
3. $-36x + 9x^3$
4. $-64x + x^3$
5. $-196x + 4x^3$
6. $-108x + 3x^3$
7. $-320x + 5x^3$
8. $-16x + x^3$
9. $-50x + 2x^3$
10. $-6x + 6x^3$

Factor each into two pieces. (time: 1:24 – 1:52)

1. x^2-8x+7 and x^2+8x+7
2. $x^2-9x+14$ and $x^2+9x+14$
3. $x^2-16x+63$ and $x^2+16x+63$
4. $x^2-11x+30$ and $x^2+11x+30$
5. $x^2-18x+81$ and $x^2+18x+81$
6. $x^2-10x+24$ and $x^2+10x+24$
7. x^2-8x+7 and x^2+8x+7
8. $x^2-8x+15$ and $x^2+8x+15$
9. $x^2-16x+64$ and $x^2+16x+64$
10. $x^2-11x+30$ and $x^2+11x+30$

Factor these into two pieces. (time: 2:24 – 2:49)

1. $x^2-5x-24$ and $x^2+5x-24$
2. $x^2-7x-18$ and $x^2+7x-18$
3. $x^2-5x-36$ and $x^2+5x-36$
4. $x^2-2x-48$ and $x^2+2x-48$
5. x^2-x-12 and x^2+x-12
6. $x^2-2x-48$ and $x^2+2x-48$
7. x^2-4x-5 and x^2+4x-5
8. $x^2-4x-45$ and $x^2+4x-45$
9. $x^2-3x-18$ and $x^2+3x-18$
10. x^2-8x-9 and x^2+8x-9