Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 20**	

Standard: This student is able to...	Mark:
C04: IntParts. Use integration by parts.	
4/4 ⋆ reattempt due on:	

Find $\int 3x^2 \ln(x)\,dx$.

Name:	Exercise Type (Cost):
J#:	**In-Class (1AP)**
Date: **2017 June 20**	

Standard: This student is able to...	Mark:
C05: IntTech. Identify appropriate integration techniques.	
3/4 ⋆ reattempt due on:	

Draw lines matching each of the five integrals on the left with the most appropriate integration technique listed on the right. Multiple techniques may be technically possible, but choose the technique most useful to begin integration. Every integral and technique is used exactly once in the correct answer.

$$\int \frac{x^2-4x+7}{(x^2+4)(x-2)}\,dx$$

$$\int \frac{16x^2}{\sqrt{4+x^2}}\,dx$$

$$\int x^3e^x\,dx$$

$$\int \frac{\sin(\ln(x))}{x}\,dx$$

$$\int \frac{1}{\cos^4(x)}\,dx$$

- Integration by Substiution
- Method of Partial Fractions
- Trigonometric Identities
- Trigonometric Substitution
- Integration by Parts

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J#:	**In-Class (1AP)**
Date: **2017 June 20**	

Standard: This student is able to...	Mark:
C06: AreaBtCurv. Express an area between curves as a definite integral.	
2/4 ⋆ reattempt due on:	

Find a definite integral equal to the area bounded by $y = x^3$ and $y = x$.