Strategy of intersection. in this section, we combined all the techniques we have learnt in previous section in evaluate a given intergrate. 1. | Sel x dx. | n2 Sinx n'dx = cosxdx.

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= 2/ n+dn - / n dn + / n+1 dn] = 2 (- n - Inful + Infutil) = 2(- = -2|nx + |n(5x+1)) = -= - |nx+2|n(5x+1)+6 e.g.s / seetrde Sect x dx = (littan2x) sec2x dx. = | sec2 x dx + | tan2x sec2 x dx. = tanx + | tan2x sec2 x dx u= tanx. dn= sei x dx = tanx + /u² du. = tanx + 3 tan3x +c e.g.4 / x2 cosx dx n=x2 dv= wsxdx du= 2xdx U= sinx. -x28inx - Sinx - 2xdx. x25 mx +2 x wsx Sinx xdx. -2 Sing. = x. (-125x) + \ L>5x dx =-x rosx + sinx. $= x^2 \sin x + 2 \times \cos x - 2 \sin x$

for de = lim J. fox) dx. Jo Jan dx = lim Jo Jan da. Jes) de = lim la for) de + lim la faide. undefine at x=a: e-g fox. 1 for dx = lim/3 for dx = -1+ a-3. 2-20. =-1. / o e-x rosx dx = lim / o e-x rosx dx. Je-x 105xdx. = 2 e-x (Sinx-105x)dx. => 0+2=2. 10 (x-1)2 dx. 11=x-1. n'dx = dn. =-5+16->0.