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```

function [p,dpx,dpy,dj]=basis_gen(z,e,xl,y1)
p(1)=(1-z)*(1-e)/4;
p(2)=(1+z)*(1-e)/4;
p(3)=(1+z)*(1+e)/4;
p(4)=(1-z)*(1+e)/4;
dpz(1)=-(1-e)/4;
dpz(2)=(1-e)/4;
dpz(3)=(1+e)/4;
dpz(4)=-(1+e)/4;
dpe(1)=-(1-z)/4;
dpe(2)=-(1+z)/4;
dpe(3)=(1+z)/4;
dpe(4)=(1-z)/4;
dxz=(xl(1)*dpz(1))+xl(2)*dpz(2))+xl(3)*dpz(3))+xl(4)*dpz(4));
dxe=(xl(1)*dpe(1))+xl(2)*dpe(2))+xl(3)*dpe(3))+xl(4)*dpe(4));
dyz=(y1(1)*dpz(1))+y1(2)*dpz(2))+y1(3)*dpz(3))+y1(4)*dpz(4));
dye=(y1(1)*dpe(1))+y1(2)*dpe(2))+y1(3)*dpe(3))+y1(4)*dpe(4));
dj=dxz*dye-dyz*dxe;
for i=1:4
    dpx(i)=(dye*dpz(i)-dyz*dpe(i))/dj;
    dpy(i)=(-dxe*dpz(i)+dxz*dpe(i))/dj;
end
end

```

*Error using basis\_gen (line 2)  
Not enough input arguments.*

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